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ABSTRACT

Results from North Carolina's End-of-Course Testing Program in 1989-90 are presented. Participation, student characteristics, and achievement are summarized, largely in table form, for the following subject areas: (1) Algebra I, (2) Geometry, (3) Algebra II, (4) Biology, (5) Chemistry, (6) Physics, (7) U.S. History, and (8) English I. Background information is also given on the history, purposes, and development of the End-of-Course testing program. Of the 391,611 end-of-course tests taken in 1989-90, 919 were perfect scores, and 8,817 had no more than three items answered incorrectly. Many results from previous years are summarized, documenting modest gains over the last 5 years in the proportion of students taking advanced mathematics and in the percentage of students beginning an accelerated mathematics sequence in grade 8. Strengths and weaknesses of schools and school systems can be identified by examining relative performance on the 2,240 test items assessed in 1989-90. Eleven tables and 26 figures illustrate comparative performance for previous years, and 1989-90 results. The last two sections of the paper present eight tables of results for outstanding school systems, and five tables of results for public school systems, respectively. (SLD)

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Secondary Education in North Carolina:

A Report of Student Participation and Performance in

Algebra I Geometry Algebra II Biology Chemistry Physics U.S. History English I

Volume 1

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Published December 1990



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FOREWORD

While there are notable exceptions, our high schools presently are not providing the high quality of education needed for students to achieve their personal best and to be prepared for an increasingly complex future.

In 1989 North Carolina dropped to the very bottom among all states and the District of Columbia on the Scholastic Aptitude Test (SAT), providing an indication that secondary education in North Carolina needs attention. Our SAT scores improved slightly in 1990, indicating that improvements do happen when our teachers and principals target their efforts toward achieving a goal. But improvements related to SAT scores are only a small part of the complex enterprise making up secondary education today. We must broaden our focus to include the entire range of academic instruction and strengthen our requirements for graduation. All students will need preparation in basic subjects like algebra and biology, and our brightest students need to be challenged with more rigorous preparation like that found in Advanced Placement courses.

This report, Secondary Education in North Carolina: A Report of Student Participation and Performance in Algebra I, Geometry, Algebra II, U.S. History, Biology, Chemistry, Physics, and English I, is based on results from the state's End-of-Course Testing Program. It provides important baseline information on where we are as school systems begin implementing local Senate Bill 2 plans to improve student performance. There are examples of excellence. Several school systems provide Algebra I instruction to all or most students, and we need to learn from them. Over the last five years, there have been modest gains in the proportion of students taking advanced mathematics and science courses, and in the percentage of students beginning an accelerated mathematics sequence with Algebra I in the eighth grade. While I am pleased with these results, they are not enough. It is clear from the results described in this report that more students are capable of taking advanced courses than are currently enrolled in them.

This is an important report. It provides information that can be used in making policy and program decisions concerning our high schools. But, perhaps more importantly, it provides a baseline so that those decisions can be evaluated over time and we can adjust our course as necessary. Ultimately, information such as that provided here will be used to judge the effectiveness of our decisions in achieving our goal of successful secondary education for all students.

This report is one of several that the Department of Public Instruction will release this year to help educators in the state evaluate secondary programs and chart progress toward their goals. North Carolina Scholastic Aptitude Test Results, for example, describes achievement in higher order thinking skills as measured by the SAT. We will release eight End-of-Course subject area reports describing in more detail performance on the goals and objectives specified in the Standard Course of Study.

Bob Etheridge

State Superintendent of Public Instruction



Executive Summary

This report describes participation, student characteristics, and achievement for eight high school courses assessed by the North Carolina End-of-Course Testing Program in 1989-90. The subject areas are Algebra I, Geometry, Algebra II, Biology, Chemistry, Physics, U.S. History, and English I. Background information on the history, purposes, and development of the End-of-Course Testing Program is also given. Companion volumes are devoted to an indepth analysis of the participation and performance in each subject area. Highlights of this report are listed below.

- Participation of North Carolina students in Geometry, Biology, and Chemistry appears to be typical of that in other states, but participation in Algebra I and Physics is somewhat lower than that in other states.
- Participation in advanced math and science courses varies by sex, parental
 education, ethnic group, and post high school plans, and is widely variable
 among school systems. The variability in school system participation cannot
 be totally accounted for by differences in ability levels of school system
 populations.
- The estimated percentage of students taking the next course in the advanced math sequence is somewhat lower than the percentage passing the previous course. The estimated percentage taking the next course in the science sequence is dramatically lower than the percentage passing or achieving at least a "C" in the previous science course.
- The percentage of eighth-grade students in an accelerated math sequence, allowing for four additional advanced math courses, has grown since 1985-86 from 11.3 to 14.6 percent. However, it appears that only the very brightest students have the opportunity to be in this track, and 15 school systems do not offer Algebra I in the eighth grade.
- 1989-90 Algebra I, Biology, and U.S. History students on average are answering 2 to 3 more test items correctly than their counterparts at initial administrations several years ago. These improvements reflect about half a letter grade when placed on a grading scale. Thus, today's students are half a letter grade stronger in their content knowledge of these courses than students a few years ago. Furthermore, grading standards have become more stringent as overall achievement has increased.
- Average performance on all tests differ by sex, ethnic group, parental education, post high school plans, anticipated final grades, and school system. The largest average differences by sex occur on the English I and Physics Tests, with females averaging higher scores in English I and males averaging higher scores in Physics. Average scores for black students and American Indian students are lower than those for white students and "other" students. Students whose parents have some education beyond high school tend to score higher, on average, than students whose parents are less educated. While



there are performance differences by grade level, one important finding is the relatively small difference in average scores for students taking Algebra I in regular one or two year programs.

- Statewide performance on End-of-Course Tests reflect the grading patterns of teachers for student performance throughout the school year, which is an indication of the validity of the tests.
- Average scores for students planning to attend four-year colleges are between the average for "C" and "B" students for the select courses of Algebra I, Geometry, and Algebra II. Average scores for these students are similar to the average for "B" students in the general courses of Biology and English I, and for the highly selective Physics course.
- Two indices of program effectiveness which reflect not only "what students know" but also "how many know it" are reported for all selective math and science courses. These indices, yield and effective yield, have generally increased since the beginning of assessment in each subject area. Gains in effective yield in Algebra I parallel the gains in yield, indicating that the additional students taking Algebra I are performing at acceptable levels.
- Outstanding programs are identified in terms of overall performance, participation, yield, effective yield, and change in these scores since the 1988-89 school year. The top 15 school systems are listed for each area. It can be seen from the overall list that many school systems are making improvements in one or more areas in secondary education. One hundred and five of the 134 school systems are in one or more categories of outstanding programs.
- Of the 391,611 end-of-course tests taken in 1989-90, 919 were perfect scores. On 8,817 tests students missed no more than 3 items.

Schools and school systems can identify strengths and weaknesses in their instructional programs by examining relative performance on the goals and objectives measured by the 2,240 test items assessed in 1989-90 across the eight subject areas. Comparative data on grading practices and participation rates give school systems additional information for planning and program evaluation. Beyond the use of test information for improved decision-making, evaluation, and planning, the end-of-course tests are part of three accountability programs. North Carolina's Program for Accreditation, Senate Bill 2, and the State Board of Education's Report Card for School Systems use student outcomes, including scores on end-of-course tests, in the accountability process.



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Section I: Background

Introduction

In July of 1983 the North Carolina General Assembly directed the State Board of Education to define and to estimate the cost for a basic education program. The Basic Education Program which was adopted by the State Board of Education and funded by the General Assembly includes support services, such as counseling and psychological services; promotion standards and graduation requirements; drop-out prevention and remedial and compensatory education services; programs for exceptional students; material support; staffing ratios at the school and district level: staff development; facility standards; and a Standard Course of Study that describes a common core of knowledge and skills to be available to all North Carolina students. The Basic Education Program, of which the Standard Course of Study is a part, describes "what each child in the North Carolina public schools is guaranteed." The Standard Course of Study in high school includes courses in the arts, communication skills, healthful living, mathematics, science, social studies, second languages, and vocational education. In an attempt to ensure that the state curriculum reflects a consensus view of what is considered basic education, the development process for the Standard Course of Study involved teachers and curriculum specialists from local school districts as well as state level staff and university specialists in the various curricular areas.

In order to assess the implementation of the Standard Course of Study, the Basic Education Program also includes curriculum testing in basic skills in grades 3, 6, and 8; minimum competency testing in high school; and end-of-course testing for high school courses. The purposes of the end-of-course tests are two-fold:

- 1. The tests provide information about each individual student's performance relative to that of other students in North Carolina.
- 2. The tests provide information about school and school system achievement on the subject area goals and objectives specified in the Standard Course of Study.

Based on statewide enrollment patterns and recommendations made by two commissions on education in North Carolina, the courses chosen for initial test development were Biology and Algebra I. In the spring of 1985, soon after the Standard Course of Study was written, item pools for these two courses were built. The results of the item development phase indicated that the Algebra I items were sufficient in quality and quantity to merit building end-of-course tests. The first end-of-course test of Algebra I was implemented in the 1985-86 school year. Since then, one or two courses have been added to the End-of-Course Testing Program each year. In 1989-90 eight courses were assessed: Algebra I, Geometry, Algebra II, Biology, Chemistry, Fhysics, U.S. History, and English I. Physical Science and Economic, Legal, and Political Systems in Action were field-tested in 1989-90 and will be implemented statewide in 1990-91. Items for Healthful Living will be



field-tested in 1990-91 with statewide implementation scheduled for the 1991-92 school year. The implementation schedule can be seen in Table 3. North Carolina is one of only a few states that have statewide assessments by subject area in high school, and is the only state with a comprehensive assessment program in high school mathematics, science, social studies and communication skills.

Using the summary information about performance on goals and objectives, schools and school systems are able to analyze strengths and weaknesses in their instructional programs and allocate resources based on this information. Comparative data on grading practices and participation rates give school systems additional information for planning and program evaluation. Beyond the use of test information for improved decision-making, evaluation, and planning, the end-of-course tests are part of three recently-mandated accountability programs. North Carolina's Program for Accreditation, Senate Bill 2, and the State Board of Education's Report Card for School Systems include student outcomes, including scores on end-of-course tests, in the accountability process. North Carolina's Basic Education Program promises students a similar basic education no matter where they live, and these tests were mandated to help ensure this promise.

The purpose of this report is to describe achievement, participation, and student characteristics in eight high school courses. Indices of effectiveness which combine achievement and participation are described for selective courses. Outstanding programs are identified, in terms of 1990 overall achievement, participation, effectiveness, and gain in all these indices. Finally, indices of achievement, participation, and effectiveness in all eight subjects are reported for the 134 North Carolina public school systems. Eight companion volumes will describe performance in detail for each subject, including achievement by subject area goals and objectives. These reports describe achievement in high school in relation to the prescribed Standard Course of Study. For further information about achievement in higher order thinking skills as measured on the SAT, refer to North Carolina Scholastic Aptitude Test Results, Volumes 1 and 2.

Report format. This report is divided into five sections. Background information on the End-of-Course Testing Program is provided in Section I. Section II contains participation and performance information for the eight courses, followed by graphical representations of the data in Section III. Results are described in paragraph form in Section II and highlights accompany each graph in Section III. Outstanding programs are identified in Section IV and results for all school systems are provided in Section V.

Structure of End-of-Course Tests

In order to fulfill the dual purposes of student reporting and curriculum reporting, multiple test forms are administered in each classroom. Each test form consists of a core of items taken by all students, and one of three to five sets of variable items. For example, five forms of the Algebra I test are administered each year. The core contains 60 items and the variable sets contain 35 items, so



that a total of 235 items ((60 + (5 x 35)) are administered in each classroom. Individual student scores are based entirely on core items. The large number of test items provides broad curriculum coverage, and school and district summary reports include scores based on items matched to particular goals and objectives. See the accompanying subject area reports for a description of achievement by goals and objectives and for school system performance on each goal.

During the test development process a large pool of test items are written so that different forms of the tests can be administered each year. The core tests are statistically equivalent so that comparisons of performance on the core tests can be made across years. The use of different forms each year, the administration of over 145 test items in each classroom, and the match of test content to the Standard Course of Study virtually eliminates problems in assessing educational improvement associated with "teaching to the test."

Most North Carolina end-of-course tests are composed of multiple-choice test items written to reflect the Standard Course of Study for each subject. However, the Geometry Test requires students to write two proofs. The proofs portion of the Geometry Test is administered in late March and scored by specially trained teachers at centralized scoring sites using a focused holistic scoring method. Each student writes two proofs, one common to all students and one of four variable proofs, so that five proofs are administered in each classroom.

The three proposed English tests will differ from the other subject area tests. Each test will measure only a portion of the curriculum each year, but across the three courses (English I, II, and III), the major areas of the curriculum will be measured. Because English is a required four-year course sequence, the State Board of Education and the North Carolina Commission on Testing determined that the most efficient method for any in-depth assessment would be to concentrate on particular areas of the curriculum each year. This decision was made after consulting with writing specialists, an advisory group of high school English teachers, an advisory group of university professors of English, and the Communication Skills and Testing Areas of the North Carolina Department of Public Instruction. Therefore, on the ninth-grade English I Test, definition and application of literary terms, proofreading and editing skills, and reading comprehension is measured. For English II, the students will write two compositions, one common and one of four variable essays. Four types of writing will be assessed in each classroom each year: argumentative, expository, narrative, and descriptive. The essays, some of which will require literary analysis, will be scored for both content and conventions, including sentence formation, word usage, mechanics and spelling. The eleventh-grade English III tests will assess reading comprehension and literary analysis.

Test Development Process

The Standard Course of Study and the accompanying Teacher Handbook specify curricular goals and objectives by grade and subject. In order to ensure the instructional validity of the tests, teachers throughout the state are surveyed to determine which objectives are basic and important to measure on end-of-course



tests. After the survey, some objectives may be designated as relevant only to accelerated courses, and therefore are not tested on the end-of-course tests. Specially trained North Carolina teachers in each subject area write test items to match specific objectives in the Teacher Handbook. Approximately 1200 items are written for each course so that multiple forms of each test can be developed. After editing, the items are evaluated by subject area specialists and teachers from all regions of the state for curriculum match, format and art, absence of bias, and technical quality. The items are placed into field test booklets and are administered in randomly selected North Carolina schools. After field testing, the items are subjected to statistical and psychometric analyses and further curricular review, which typically results in elimination of approximately 25 percent of the item pool, leaving about 900 items from which to build the core and variable portions of the end-of-course tests. Several versions of the final tests are reviewed by North Carolina teachers and curriculum specialists before statewide administration. Alternate forms of the core tests are field tested during the first year of statewide administration. These forms are adjusted so that equivalent core tests are administered each year.

The development of the performance assessments in Geometry and English have involved advisory groups composed of state level curriculum experts, local curriculum specialists, teachers from the various regions of the state, and university professors. The advisory groups determine the scoring criteria and score scale. Eighty English II prompts were administered during the 1988-89 school year in a statewide field test. The English II Advisory Group has reviewed responses to the prompts and developed scoring criteria so that a scoring guide could be distributed to English teachers in the fall of 1990, well before the test is administered statewide in 1991-92.



Section II: Participation and Performance in High School Courses

Participation

In 1989-90 the End-of Course Testing Program assessed three mathematics courses, three science courses, one social studies course, and one English course. The three mathematics courses, Algebra I, Geometry, and Algebra II, and two of the science courses, Chemistry and Physics, are selective; only a select subgroup of the student population takes these courses. U.S. History and English I are required for graduation. Although Biology is not required for graduation, a life science is required and Biology is the life science taken by almost all high school students.

Modern technological society demands more advanced mathematics and science preparation for more students than has been required in the past. The need for better education in mathematics does not translate to better skills at computation and calculation. Rather, the demand is for the thinking, reasoning, and problem-solving skills that true mathematical understanding can impart, and for specific content knowledge in algebra, geometry, probability and statistics, and other advanced mathematics topics. Math courses, especially Algebra I, are now viewed as the "gatekeepers", stratifying students for future opportunities. As is noted in Everybody Counts¹, mathematics needs to be seen as a pump, not a filter, enabling students to pursue opportunities, not closing off opportunities for them. In addition, understanding the biological and physical world not only makes more informed consumers and voters, but also prepares students to make the tech plogical advances that will enable the United States to compete successfully in today's world economy and to make the changes required for a safe environment and a higher standard of living for all.

Comparison with other states. Since students take selective courses at different grade levels, calculating the exact percentage of high school students who take each course is difficult. Without statewide individual student record databases, estimates of participation must be based on overall course enrollments and grade level enrollments. The State Scien: Amath Indicators Project sponsored by the Council of Chief State School Officers estimates participation by dividing the enrollment of all grades 9-12 students in a course by the total student enrollment for the grade level at which most students take the course. The report from this project gives the only state-by-state information on variations in math and science course enrollment; only 29 states, including North Carolina, were able to provide enrollment by courses. Table 1 gives the course enrollments for the southern states that provided data and the range and median for all 29 states.



¹Everybody Counts, A Report to the Nation on the Future of Mathematics Education, National Academy Press, 1989.

Table 1. Estimated Percentage of Students Taking Selected Math and Science Courses over Four Years of High School: 1987-88.

State	Formal Math Level 1 (e.g. Algebra)	Formal Math Level 2 (e.g. Geometry)	Biology 1st Year	Chemistry 1st Year	Physics 1st Year
Alabama	57%	45%	1.00%	36%	23%
Kentucky	68%	57%	100%	43%	13%
Lcuisiana	98%	86%	94%	51%	22%
Mississippi	74%	60%	100%	54%	16%
North Carolina	64%	55%	98%	46%	14%
South Carolina	54%	50%	97%	48%	14%
Virginia	77%	61%	99%	56%	24%
Median*	79 %	55%	98%	43%	19%
Range*	47-98%	28-86%	65-100%	27-56%	10-29%

^{*}Pased on the above states plus Arkansas, California, Delaware, Hawaii, Idaho, Illinois, Indiana, Iowa, Minnesota, Missouri, Montana, Nebraska, Nevada, New Mexico, New York, North Dakota, Ohio, Oklahoma, Pennsylvania, Texas, Wisconsin, and Wyoming.

Source: State-by-State Indicators of Course Enrollment in Science and Mathematics, Rolf Blank and Diane Schilder, Council of Chief State School Officers.

Lased on the data from these states, it appears that North Carolina participation in Geometry, Biology and Chemistry is typical of participation in other states, but that participation in Algebra I and Physics is below that in other states. Louisiana requires Algebra I for all students and its participation rate is 98%. North Carolina is always lower in participation than Virginia, a southern state with comparable percentages of students taking the SAT and substantially higher SAT scores. It should be noted that these participation rates do not take into account curriculum variations across states or differences in achievement, and that the participation rate for Algebra I is underestimated for North Carolina, and perhaps for other states, because eighth-grade students may not be included. Also, since the enrollment in the grade level which is typical for students taking the course is used as the denominator in estimating participation, participation rates are not comparable across subjects. Dropout in the upper grades means that the denominator used for the very advanced courses is much smaller than that for the courses taken earlier in high school careers.

Other participation indices. An alternative method is to base participation on eighth-grade final average daily membership (ADM) for the year in which the largest group of students taking the course was in the eighth grade. For

¹Using the same grade level for all courses allows comparisons across courses. Also, eighth grade is generally prior to a high incidence of dropping out. Allowing the eighth-grade year to vary by grade in which students typically take the course controls somewhat for cohort size differences. It should be noted that these indices use course takers in particular grade levels as indicators of participation over time. When statewide participation is calculated by adding the number of eighth-graders in 1985-86 to the ninth-graders in 1986-87, and so on, the difference between the result and the estimate for the 1985-86 cohort using the above method is less than one percentage point.



example, for Algebra I in 1989-90 the eighth-grade ADM for 1988-89 is used since ninth-grade is the typical grade in which students take Algebra I.¹ Table 2 compares the 1989-90 participation for the eight courses when calculated by both methods.

Table 2. 1989-90 Participation Indices for Eight End-of-Course Subjects

Subject	Typical Grade Level	Participation Index 1 ²	Participation Index 2 ³		
Algebra I	9	72.3%	68.8%		
Geometry	10	53.1%	56.6%		
Algebra II	11	41.7%	50.9%		
Biology	10	87.9%	93.8%		
Chemistry	11	38.7%	47.3%		
Physics	12	11.5%	15.2%		
English I	9	90.3%	85.9%		
U.S. History	11	76.2%	93.1%		

Participation Index 1, based on eighth-grade ADM, is lower than Index 2 for all subjects except Algebra I and English I. For the six other subjects the grade levels used for the denominator in Index 2 have experienced various amounts of dropout. English I and Algebra I are based on the ninth grade which has a large ADM figure due to high retention rates the first year of high school. Participation Index 1 can be interpreted as an estimate of the percentage of students who are about to enter high school who will take each course prior to graduation. Index 2 is influenced by dropout rates but reflects the percentage of currently enrolled students who take each course. Index 1 will be used throughout the remainder of this report. For comparison purposes, both participation indices are given for each school system in Section V.4

Participation over time is given in Table 3. Since the beginning of assessment in each subject area there has been a slight increase in participation indices for selective courses (Algebra I, Geometry, Algebra II, and Chemistry) and a slight decrease in participation in courses taken by all students (U.S. History and Biology). Decreases in the numbers of students tested reflect declining cohort sizes.

⁴In a few cases the participation index goes over 100 percent when calculated at the school system level. This may occur in small school systems when students in one school system are allowed to transfer to another school system for high school only, or when program changes are implemented that change the grade level in which students take the course.



¹In previous reports the current year first-month ADM for the ninth grade was used as the denominator for all participation estimates. Ninth-grade ADM varies considerably by school system due to the prevalence of retention the first year of high school and the differences among school systems in high school structure, e.g. 9-12 vs. 10-12 organizations.

²Participation Index 1 is based on the 8th grade final ADM for the year the students in the typical grade level were in the 8th grade.

³Participation Index 2 is based on the 1989-90 final ADM for the typical grade level of students in the course and is similar to the one used by the State-by-State Indicators Project.

ELP is a ninth grade course: Economic, Legal, and Political Systems. Gray areas indicate years prior to implementation for each subject. Participation index is based on 8th-grade ADM when most students in the course were in the 8th grade.



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Participation in successive courses. As mentioned above, Algebra I acts as a screen for participation in upper level math courses, and in many cases as a screen for participation in selective science courses. The typical course sequence for math is Algebra I followed by Geometry and then Algebra II. For science the typical sequence is Physical Science, Biology, Chemistry, and then Physics for a select, small group. Since each course may act as a screen for the next, i.e. only successful students in the lower level course are permitted to take the next course in the sequence, participation can also be viewed in terms of the percentage of Algebra I students taking Geometry, and so forth. The 1989-90 school year was the first in which a group of Algebra I students and Biology students could be followed through the sequence. Table 4 gives the percentages for the first course in the sequence based on the eighth-grade ADM. Then each successive course is based on the enrollment in the previous year's lower level course. Percentages of students estimated to receive a "D" or above in each course are given for comparison.

Table 4. Percentages of Students Taking the Next Course in the Math or Science Sequence. 1

Subject/ Grade Level	Year	Number Tested	Percent Taking Next Course	Percent Passing ²
Eighth-grade ADM Algebra I Geometry Algebra II	1986-87 1987-88 1988-89 1989-90	84722 59723 43325 35310	70.5% 72.5% 81.5%	84.5% 87.5%
Eighth-grade ADM Biology Chemistry Physics	1985-86 1987-88 1988-89 1989-90	88223 77154 33352 10166	87.5% 43.2% 30.5%	87.3% 90.4%

The estimated percentage of students taking the next course in the math sequence is somewhat lower than the percentage passing the previous course, and is dramatically lower for advanced science courses. It is estimated that less than half of those who pass Biology continue on to take Chemistry. Although approximately 90 percent of Chemistry students pass, and approximately 70 percent make a "C" or better, it appears that only about 30 percent of Chemistry students go on to take Physics.

²Percent passing is based on the final grades teachers anticipated giving students at the time the the end-of-course tests were administered.



¹These percentages are based on the assumption that all students take the courses in the sequence above. While this sequence is typical, variations do occur, e.g. students who take Algebra II immediately after Algebra I.

Factors affecting participation. Student participation in the selective mathematical and science courses appears to be determined by a complex set of factors, including student attitudes and aspirations, peer influences, counseling, student ability, administrative selection criteria, parental involvement, course availability, expectations of teachers, counselors, and administrators, and community influences. The section below will illustrate how participation in these courses varies by grade level in school, sex, ethnic group, parental education, post high school plans, and school system.

Variations in grade levels that students take particular courses generally occur in selective math courses. Some students are on an accelerated track in which they take Algebra I in the eighth grade, Geometry in the ninth, and Algebra II in the tenth. Students who are in the "fast track" not only have opportunities to learn more advanced mathematics at an earlier age but also have opportunities to take additional advanced math courses in their junior and senior years in high school. Students who begin with Algebra I in the ninth grade can take three additional math courses in high school. Students who are in the tenth grade may be in the second year of a two-year Algebra I course, or may be just beginning to take the higher mathematics sequence. Participation by grade level in Geometry and Algebra II parallels that established in Algebra I.

Table 5. Participation by Grade Level in Algebra I in 1989-90

Grade Level	Final ADM	Algebra I Students	Percent of ADM	Percent of Algebra I Students
Eight	78474	11475	14.6%	19.4%
Nine	85908	23778	27.7%	40.2%
Ten	77082	17363	22.5%	29.4%
Eleven	69337	4938	7.1%	8.4%
Twelve/Other	66802	1531	2.3%	2.6%
TOTAL		59085		100.0%

Statewide, the proportion of students who begin an accelerated math sequence with Algebra I in the eighth grade has increased from 11.3 percent to 14.6 percent since 1985-86. Since approximately 15 percent of North Carolina's eighth-grade students score at or above the 90th percentile on the math section of the California Achievement Tests (CAT), it appears that only the very brightest of North Carolina students have the opportunity to take four additional advanced math courses in high school.

The opportunity to participate in an accelerated math sequence varies by school system. Although the number of school systems in North Carolina who do not offer Algebra I in the eighth grade has declined since 1985-86, 15 school systems still did not offer Algebra I to eighth graders in 1989-90. Over half of the school systems with no eighth-grade Algebra I enrollment are in the northwest and western regions of the state. In 57 school systems more than 20 percent of



eighth graders were enrolled in Algebra I; and, in 12 school systems more than 30 percent of eighth graders took Algebra I.

The likelihood of participating in an accelerated math sequence also varies by ethnic group. Figure 2 in Section III shows the differences among ethnic groups in each grade level for Algebra I. Although 25.5 percent of Algebra I students are black, only 13.4 percent of eighth grade Algebra I students are black. Approximately 47.7 percent of eleventh-grade Algebra I students are black; these students have begun the math sequence too late in their high school careers to complete the three advanced mathematics courses required by the 16 campuses of the North Carolina university system prior to graduation. Also, among white Algebra I students, 22.9 percent are in the eighth grade, while only 10.2 percent of black Algebra I students are in the eighth grade.

In Table 6 enrollment in the eight courses is broken down by sex, ethnic group, parental education, post high school plans, and anticipated final grade. Figures 3 through 8 give graphic representation to the data in Table 6.

Except for Physics, *females* are overrepresented in the selective math and science courses when compared with what would be expected in the K-12 student population. Between 53.5 percent and 56.1 percent of Algebra I, Geometry, Algebra II, and Chemistry classes are female, while 45.3 percent of Physics classes are female. Females and males are equally represented in the survey courses taken by most students.

Participation in selective courses varies by *ethnic group*. Black students represent slightly over 30 percent of the K-12 population, and close to 30 percent of the enrollment in Biology, English I, and U.S. History. As the courses become more advanced, fewer black students are enrolled. For example, while 29.0 percent of Biology students are black, 23.1 percent of Chemistry students and only 14.3 percent of Physics students are black. Compared to their distribution in the school population, it appears that black students are underrepresented and white students are overrepresented in the selective math and science courses.

Parental education also appears to have an impact on participation in selective math and science courses. In the courses taken by most students, between 55 and 60 percent of the students have one or more parents with education beyond high school. About 65 percent of Algebra I students have one or more parents with beyond high school education, and the percentage increases as the courses become more advanced, with almost 82 percent of Physics students having one or more parents educated beyond high school.

Students recorded their post high school plans when they took the end-of-course tests. As would be expected, a higher percentage of students in the advanced courses plan to attend a four-year college than in the more general courses. While approximately half of Biology and English I students intend

¹Due to space limitations on the answer sheet, post high school plans were not collected for U.S. History students.



	Algebi Number P	ra I ercent N	Geom lumber l	etry Percent	Algeb Number	ra II Percent I	Biolo Number	gy Percent	Chemi Number		Phys Number		Englis Number		U.S. HI Number F	•
<u>Sex</u> Male	27357	46.5	19715	45,3	15912	45.2	35929	49.8	14363	43.9	5544	54.7	36587	49.8	31779	49,4
Female	31511	53.5	23819	54.7	19305	54.8	36172	50.2	18331	56.1	4596	45.3	36953	50.2	32607	50.6
Ethnic Group								an ann an ann an an an an an an an an an		n annonen ingon as ne	no neondeachtair sa	on Joseph con M. All C				1.5
American Indian	835	1,4	542	1.2	315	0.9	1274	1.8	405	1.2	98	1.0	1327	1.8	981	99999999977 S. 1
Black	14999	25.5	10266	23.6	7550	21.5	20865	29.0	7542	23.1	1444	14.3	21278	29.0	18757	29.2
White	41555	70.7	31637	72.8	26361	75.0	48363	67.2	23882	73.1	8153	- CA 2. AV	राष्ट्रपार्वे हिन्दु हैं, प्रश्ने कि	67.A	43211	67.2
Other	1370	2.3	1016	2.3	927	2.6	1458	2.0	821	2.5	411	4.1	1350	1.8	1326	2.1
Parental Education					15 Ab A	in the second of	e te a comprese dan sala aat 'e	two dineral connects index		.meren iv 🍇 🗻 1	norm washe	. Japan di n in .		meteodea 🔏	756	1,2
Eighth Grade of Less	509	2.0	251	0.6	173	0.5	833	1.2	180	0.6	55	· · · · · · · · · · · · · · · · · · ·	964	1.3	<i>39-1988</i> 3888. N. G. 100	330,200
Eighth to Twelfth	4612	7.9	2410	5.6	1544	4.4	8086	11.4	1462	4.5	257	2.5	8935	12.3	6800	10.7
High School Graduate	15434	26.5	9700	22.4	7189	20.5	21093	29.7	6633	20.4	1516	15.0	22192	30.6	18364	28.9
More than High School	37790	64.8	30971	71.5	26215	74.6	41100	57.8	24315	74.6	8280	81.9	40327	55.7	37661	59.2
Post High School Plans								na, napananakana ka ca <u>k</u>	on interest pay of the best and	.5 20000000	ubus urara ka 🛦 🖈	r kindige min a ()		5.4	vessid i kkervereed	nteturen 2860
Seek Employment	1395	2.4	569	60.4		1.1	3838	8.4	270		49	** ***		e a di passona si ili ili ili		
Military Service	3712	6.4	1975	4.6	1334	3.8	6097	8.5	1146		252		6245	8.6	x 364 x 255 364 x 25 x 2	**************************************
Trade/Business School	1242	2.1	789	1.8	*	1.3	2348	3.3	425	1000	4		1715	2.4		
Community/Tech. Coll.	7529	12.9	5845	13.5		14.2	11580	16.2	4344		745		8362	11.5	-000 0011110000 -110010	c 197508-4050756-15.
Private Junior College	581	1.2	705	1.6	646	1.8	788	1,1	584	to the option of	108	arang ang talah sa kalang at sa	534	0.7		
Four-year College	34477	59.0	28733	66.2	24875	70.8	33734	47.3	23627		8670			50.3	concollect todal (NOSS)	111660000000000000
Undecided	7852	13.4	4159	9.6	2092	5.0	10545	14.9	1870	•• •• •	179		1. 1711			
Other	1560	2.7	609	1.4	365	1.0	2362	3.3	344	1.1	82	9.8	3074	4.2		
Anticipated Final Grade	1							a marak s	- NOVE ME A	يمدع درزان	. : . 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			- 198.0 4 & 4	e e e e e e e e e e e e e e e e e e e	12.0
A	7758	13.2	5578	12.8				*	1.121.							CONTRACT.
B	14662	24.9	10371	23.8							3452			26.4		24.0
COLOR BAR TOWN	15959	27.1	12051	27.6		1.00	22190		199 general	5 8 W 1 W 1		7 71	1000	1.5	199990 10.1.	30.7
D	12142	20.6	10054	23.0	7658		16867		6579		122			21.1		23.1
ř	8439	14.3	5579	12.8	3951	11.2	8615	11.9	3078	9.4	44	3. 1832 4, 4	8059	11.0	6565	10.2



to go to a four-year college, more than 70 percent of Algebra II and Chemistry students, and more than 85 percent of Physics students, have such plans. Also, more than 65 percent of students in general courses intend to further their education in somefashion, in addition to more than 14 percent who are undecided and may yet choose to further their education. The percentage of undecided students also decreases as the courses become more selective. Among the census courses of Biology and English I more than 5 percent plan to work after graduation, and more than 8 percent intend to enlist in military service.

Post high school plans of students enrolled in various high school courses appear to vary by *ethnic group*. Figure 7 displays the percentages of black and white students in each course with various post high school plans. In Algebra I, Geometry, Chemistry, and English I the percentage of black students in each course who plan to attend a four-year college is similar to the percentage of white students with such plans. The percentage of black students taking the most advanced math and science courses who plan to go to college is slightly higher than the percentage of white students. In general, a higher percentage of white students than black students plan to attend a community college, while a higher percentage of black than white students plan to enlist in the military. In all courses, smaller percentages of black students are undecided about their post graduation plans.

Except for the highly selective Physics classes, grading patterns appear to be consistent across high school subjects. Algebra I has the highest percentage of "Fs", reflecting its perceived status as a screening course for other subjects. A higher percentage of students receive "Fs" in this relatively selective course than in the general courses of Biology, English I, or U.S. History. There is a slight tendency for higher percentages of students to receive higher grades in selective courses than in general courses. However, even though only about 43 percent of Biology students take Chemistry, similar percentages fail the course -- 9.4 percent for Chemistry and 11.9 percent for Biology.

Finally, participation varies by school system. For example, in 1989-90 participation in Algebra I varied from an estimated 43.6 percent to 100.0 percent, and between 17.1 percent and 65.4 percent for Chemistry. While the median participation index for Algebra I was about 70, 10 percent of school systems had participation rates under 57 and 10 percent had rates over 85. Participation indices for all school systems are reported in Section V and are displayed graphically in Figure 9. The ranges depicted in the graph show that even among general courses there is some variation in participation. This variation is much narrower than that for Algebra I and other selective courses. One might speculate that the wide variation is due to differences in ability among students in the school systems. The table below gives the range and the median participation rates for the two initial selective math and science courses for school systems grouped by average performance on the eighth-grade California Achievement Tests.



Table 7. 1989-90 Participation in Algebra I and Chemistry, Grouped by Eighth-Grade Total Battery California Achievement Tests Scores

Total Battery		Algebra	I		Chemistry						
Percentile Range	Low	Median	High	Low	Median	High	of LEAs				
65 and Above	50.0%	79.2%	100.0%	28.9%	39.2%	5 8. 9 %	18				
60-64	50.0%	73.8%	100.0%	18.7%	44.2%	65.4%	2 7				
55-59	50.0%	69.7%	93.4%	19.2%	32.7%	57.7%	3 5				
50-54	51.4%	67.2%	84.2%	21.1%	35.9%	51.6%	29				
Less than 50	43.6%	67.7%	92.2%	17.1%	30.9%	58.8%	25				

This table illustrates that among low achieving student populations and high achieving student populations the range in participation is almost as great as that among all school systems. Therefore, even when controlling for average achievement levels for school systems the variation in participation is still quite large. Participation and performance for all school systems grouped by the above performance ranges are displayed in Figures 22-26 and are reported in Section V. School systems are listed in alphabetical order within each group.

Performance

The purposes of the end-of-course tests include providing a student score and a summary score which are comparable across years and can be used for student grading and school and school system accountability. The tests do not provide information about how North Carolina students are doing compared with other students in the nation; rather, they measure the implementation of the goals and objectives in the Standard Course of Study. The core tests are designed to average between 60 and 65 percent correct at the initial administration. Therefore, scores at the initial administration of tests, such as the Physics and English I Tests in 1989-90, do not provide much information about statewide achievement, but give a benchmark for comparisons in future years, and a standard to which school and school system achievement can be compared.

Statewide performance in all courses. Average scores at the 1989-90 administration ranged from 61.2 average percent correct in Biology to 70.3 in U.S. History. Table 8 displays the core scores for all end-of-course tests since the first Algebra I Test was administered in 1985-86. Gains are exhibited for five of the six subjects tested in both 1988-89 and 1989-90. Except for Algebra II, tests which have been administered three or more years have shown average gains of 2 or more test items since their initial administrations. For example, 1989-90 Algebra I students answered an average of 2.9 more test items than 1985-86 Algebra I students. Average scores for English I and Physics were within the range expected for first administrations.

Average scores since 1985-86 for Algebra I and since 1986-87 for Biology are displayed graphically in Figures 10 and 11. The dotted lines on the graphs show

¹The end-of-course core tests vary in length: Algebra I, Geometry, Chemistry, Physics, and U.S. History contain 60 items; Algebra II contains 56 items; Biology, 66 items; and English I, 100 items.



5

Table 8. Average Core Scores for End-of-Course Subjects Since 1985-86

	1985- Average Core	-86 Percent Correct	1986- Average Core	-87 Percent Correct	1987- Average Core	88 Percent Correct	1988- Average Core	89 Percent Correct	1989 Average Core	-90 Percent Correct	1990 Average Core	-91 Percent Correct	1991 Average Core	-92 Percent Correct
Algebra I	37.7	62.9%	39.2	65.3%	39.2	65.3%	39.8	66.4%	40.6	67.7%				
Geometry					field test		37.5	62.6%	38.4	64.0%				
Algebra II	field test		37.7	67.2%	36.2	64.6%	37.6	67.2%	37.4	66.8%				
Physical Science				Miles Andrews	1.400000000			j	Reld test					
Biology	field test		38.0	57.6%	39.0	59.1%	39.2	59.4%	40.4	61.2%				
Chemistry		у — 1 — 1 — 2 14 — 1 — 1 — 2			field test		37.5	62.5%	38.5	64.1%				
Physics		#1.57 p		e mere D		×.	field lest		38.3	63.9%				
English I				osan in			field test		64.3	64.3%				
English II						ą:	•	ns e en e ege Side	Tropies (field tes			
English III										Swsysi	4.5 ₆ 1917		field test	
ELP	Y			eeron eeron			• :		field test					
U.S. History					39.9	66.5%	42.0	70.0%	42.2	70.3%				
Healthful Living											field ten	t distribution	:	

FLP is a ninth grade course: Economics, Legal, and Political Systems. Gray at a sindicate years prior to implementation for each subject.

Due to administrative differences between the 1987 and subsequent testings, scores on the 1987 test cannot be directly compared with scores on the subsequent tests.

the average scores for students receiving various anticipated final grades at the first administrations.¹ These average scores for various letter grades can be used to interpret differences in average core scores either across time or across groups. For example, in 1985-86 the average Algebra I score for "B" students was 42.2 and the average for "C" students was 37.8. Since that time the statewide average for all Algebra I students has increased from 37.7 to 40.6, or more than half a letter grade. In other words, according to 1985-86 standards, average performance in 1989-90 was at "C+" or "B-" levels while average performance in 1985-86 was at a "C" level (see grading discussion below).

Performance by subgroups of students. Average scores for all courses are reported in Table 9 by grade level, sex, ethnic group, parental education level, post high school plans, and anticipated final grade. Graphs depicting score differences among these groups are presented in Figures 12 through 16. The largest performance differences by students across grade levels occurs in courses in which students may be in dissimilar tracks. For example, in the math sequence there are large differences between eighth-grade students, who are on an accelerated track, ninth-grade students, who are on the traditional track, and tenth grade students, who are on a slower track or may be retaking the course. Typically, eighth-grade students are a highly select subgroup of eighth-grade students, and therefore are expected to outperform other students. These differences are paralleled in Geometry and Algebra II. In the science sequence, in some school systems high achieving students do not take Physical Science in the ninth grade. Instead, they take Biology in the ninth grade, followed by Chemistry in the tenth and then take Physics to fulfill the physical science requirement. The select nature of these students is reflected in the large score differences between different grade levels in Biology and Chemistry.

Average differences by sex are minimal for Algebra I, Algebra II, and Biology. The largest sex differences in performance occur in English I and Physics; in English I females average 7 percentage points higher than males and in Physics males score an average of 6.5 percentage points higher than females. On the remainder of the courses, Geometry, Chemistry, and U.S. History, males average several percentage points higher than females.

Average differences by *ethnic group* occur for all subjects. White students and "other" students scored higher on average than black students and American Indian students on all end-of-course tests.

Parental education differences on end-of-course tests are similar to those on other tests. Although there are some differences between students whose parents are high school graduates and students whose parents have less education, the largest difference occurs between students who have parents educated beyond high school and students with less educated parents. The differences among parental education levels are somewhat smaller in the selective courses.

¹Teachers record the final grades they anticipate giving each students at the time of test administration.



Table 9. Average Performance of Students In Each Course

		Algebr	• I	Geometry		Algebr	a li	Biolog	3V	Chemia	itrv	Physi	C\$	Englis	hl	U.S. History	
		Average Core	Percent Correct	Average Core	Percent Correct		Percent Correct		Percent Correct		Percent Correct	Average Core	Percent Correct	Average Core	Percent Correct	Average Core	Percent Correct
	All Students	40.6	67.7	38.4	64.0	37.4	66.8	40.4	61.2	38.5	64.1	38.3	63.9	64.3	64.3	42.2	70.3
	Grade Level										· constant and a service	. was so the second	5 - 1 - 26 - 25-2	o. U o es se se se se secono	urup in soor sur insula	N MSCC - 19000-110000	terestas acestas filiadēta
		47.7	79.5														
	9	42.1	70.2	45.9	78.1	erwordii i	000000 WOY	46,6	70.6	0000000 <u>2</u> 20220000	**************************************	860.000 P 1104		80 3848888		::::::::::::::::::::::::::::::::::::::	
	10	38,5	60,5	36.9	64,4	44,9	80.2	40.1	8.08	43.5 38.5	72.5 64.2	40.0	66.7		60000000		
	11 13 (20 mg) - 3 (30 mg) (20 mg) (20 mg)	34.0	56.7	32.7	54.6 52.4	36.7 30.4	65.5 54.2	35.1	53.2	38.5 35.1	59.5	38.0	63.3				
	12			31.A	94. 7 s	30,9	. His Harte is	entrefusivelite ett.	A Andrews	•		enged word (#)	· · · · · · · · · · · · · · · · · · ·	V routhbookyardy)	Collective sector de da	e war bin saa baraba	\$6.0700000000000000000000000000000000000
	Sex	andre address and brooks	erodolikososossis (tioto	odrevou <u>osis</u> so <u>is</u> 2000	00000 <u>00</u> 00000000000000000000000000000	. 2 000 <u>4 20</u> 42 (10	00000000 0000 0000000	an ereze ere.	XXXXXXX AD S	39.7	86.2	40.1	66.9	60.0	80.8	43.0	71.7
	Male	40.4	87.A	39 A	65,7	37.6	66.6	40,8 40,2	61.5 60.9	37.5	62.5	36.2	50.3	67.8	67.8	41.4	69 .0
	Female	40.8	68.1	3' :"	62.6	37.3	00.0	40.2	60.9	37.3	UL.3	50,2	00.5			****	••••
	Ethnic Group		nesturane escanadado	807/08 1619 6 19 60	ecco.co	. 0	190.000 X ATW1-6	19819-417 & 298	9 koj <u>ed</u> nijo 1		88888 44 4 88		5-183 22 15 48	55,5	55.5	38.2	63.6
	American Indian	36.4	₩.7	್ಜ ಚಿತ್ರಿ	55.5	\$2.2	57.A	36,6	59.6	94.2	57.0	34,0 33.3	56.6 55.5	56.6	56.6	37.5	62.5
	Black	36.7	61.2	32.7	54.6	32.4 38.7	57.9	34.9 42.8	52.9 64.9	9.00 9.9	56.5 6 0.5	33.3 39.2	55.5 L.U	57. 8	57.A	44,3	73.8
	White	42.1	70.1	40.2	67,0 68.9	42.2	75.4	42.2	63.9	40.6	67.7	39.8	66.3	66.3	66,3	42.3	70.6
1	Other	43.7	72.8	41.4	00.9	72.2	73.4	76.4	03.5	70.0	• • • • • • • • • • • • • • • • • • • •	•••	C 0.0		20,2		
	Perental Education	vyvvono od totob itin	199590901212111220900	00000001 <u>0 2</u> <u>00</u> 157	* *** u a la	·	vooraa wor	98 (C) 144 4. 47	economic (S	34.9	B8.2	35.9	59.0	5 1.Š	213	35.8	59.7
	Eighth Grade or Loss	37.4	62.3	31.6	56.0	38.7	63.7 59.8	23.7 34.4	81.1 52.1	34.4	57.4	34.2	57.0	54. 5	54.5	37.1	61.9
	Eighth to Twelfth	37.1	61. 9	34.1 36.7	56.9 59.5	33.5 35.0	62.5	37.2	ິ່ 5 6.3ິ	36.3	80.5	35.9	59.8	59.7	59.7	8,96	66.4
	High School Graduate	38.7	64.5 70.0	39.6	66.0	38.3	68.4	43.6	66.0	39.3	65.6	38.9	64.9	69.7	69.7	44.5	74.2
	More than High School	42.0	, 70.0	37.0	00.0	30.3	00.4	40,0	33.3		-						
	Post High School Plans	www.combin. 42.62	with the Mark Mark to	noverir ala sa ili	7 (W.24.4	2 (<u>a.a.a.a.</u> a)	Sold #AWG	33.7	50.2	13.5	55.8	32.7	54.5	50.7	50.7		
	Seek Employment	35.3	88.1	33.7	56.2	31.8 32.1	56.8 57.3	್ಲಾಂ ತಿಕ್ ಗ 35.0	53.0	35.0	58.3	35.3	58.8	54.1	54.1	ekî ya îsterayanê ji say	(2000)
	Military Service	36.2 36.4	60.3 60.7	34.0 33.0	56.7 55.0	31.7	56.6	35.1	54.7	33.1	\$5,2	29.8	49.7	55.9	55,9		
	Trade/Business School	35.3	60.5	33.3	55.5	31.6	56.4	37.2	56.4	34.1	56.8	33.2	55.3	59.3	59.3		
	Community/Technical Coll. Private Junior College	36,9	61.5	33,2	55,3	31,2	55.7	39,7	59.2	34.4	57.3	34,8	\$7.7	52.2	62.2		
	Four-year College	43.1	71.8	40.4	67.3	39.5	70.5	45.2	68.5	39.9	66.5	39.0	65.0	71.9	71.9		
	Undecided	38.8	64.7	36.5	50.8	\$5.3	63.0	\$7.1	56.2	36.7	61.2	35,4	69.0	59.3	59.3		
	Other	38.1	63.5	36.6	61.0	36.0	64.3	35.2	53.3	36.7	61.2	39.0	65.0	54.6	54.6		
	Anticipated Final Grade	\$0.8	4. 7	49.5	82.5	48.6	**** ********************************			46.1						50,2	83.7
	8	93,0	76.0	43.6	72.7	42.7	76.3	45.6	69.1	41.4	69.0 • • • • • •	39.1 • 88.00 0 4 0 50	65.2 60.5	72.0 63.5	72.6 63.5	46.3 42.0	77.2 70.0
	0	40.4	67.3	37.8	63.0	36.7 31.1	65.5 55.5	40.2 35.5	60.9 53.8	37.6 34.2	62.7 57.0	36.2 33.5	55.8	55.4	55.4	37.8	63.1
		35.7 35.4	59.5 50,2	33.0 28.4	55.0 47.3	25.4	∴ 45.4	31.0		30.9	51.5						
	. \digamma	30,1	COLONIA -	49,7	77,4	#414	******	. 4114	, .,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							A Section 1999 A

Students in all courses except U.S. History were asked to record their **post** high school plans when they took the end-of-course tests. As expected, students who plan to continue their education in a four-year college score substantially higher on average than students with other post high school plans. In the selective math courses there is very little difference in average performance among students who intend to work, enlist in the military, attend trade or business schools, attend community colleges, or attend private junior colleges.

Currently, Algebra I is the only end-of-course subject that is offered over either one or two academic years. The two-year course allows students to take additional time to master the same course content. As can be seen in Table 10, students in *two-year Algebra I* programs do not score substantially lower than regular Algebra I students.

Table 10. 1989-90 Algebra I Performance by Type of Program

Program	Number Tested	Average Core	Average Percent Correct	
Two-Year	10,526	37.0	61.6%	
Regular	43,529	40.5	67.5%	
Honors	4,585	49.8	83.0%	

At the time of test administration teachers recorded the final grades that they anticipated giving students. The average scores by anticipated final grade are reported in Table 9 and displayed in Figure 16. There is a consistent difference between grade groups of about 4 to 5 raw score points for all subjects with tests of 56 to 66 items, and about 8 to 9 raw score points for the 100-item English I Test. This pattern is an indication of test validity in that the results parallel the grading practices of teachers for student work over the course of the school year.

Although there are consistent differences in average scores for the grade groups, wide variations exist in scores for students receiving each grade. Figure 17 displays the variations in scores for Algebra I students. The range of scores reflects differences in grading standards across tracks, teachers, schools, and school systems.\(^1\) In fact, grading standards appear to have changed somewhat since the implementation of the first end-of-course test. Figure 18 shows the average scores for each grade group in Algebra I since 1985-86. As overall scores have increased, so have scores for each grade group. The increases for each grade group indicate that grading standards for students have become more stringent as overall achievement has increased.

¹The companion subject area volumes contain average scores for each letter grade group and percentages of students attaining each letter grade for all public school systems. In those tables it can be seen that although there are different standards across school systems, within most school systems the average score for each letter grade group differs in a systematic way, paralleling the performance on the tests.



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The consistent differences among grade groups on the end-of-course tests help interpret differences in scores over time and among groups. For example, the average scores for college-bound students in the selective courses of Algebra I, Geometry, Algebra II, and Chemistry are between the overall average for "C" and "B" students. In other words, in these courses college-bound students are scoring on average at a "C+" or "B-" level. In the general courses of Biology and English I, average scores for college-bound students are at the "B" average score level.

Finally, average performance on end-of-course tests varies by school system. See Section V for the average core scores for all school systems on all end-of-course tests. The widest variations in school system performance occurs among the selective courses in math and science (see Figure 19), with narrower differences among most school system averages occurring for the general courses of Biology, English I, and U.S. History. For example, in U.S. History the range of average scores for the middle 50 percent of school systems is about 3 test items (5 percentage points), or slightly more than half a letter grade on the grading scale. In Algebra II the range for the middle 50 percent of school systems is about 5 items (about 10 percentage points), or an entire letter grade.

Indices of Program Effectiveness: Yield and Effective Yield

Since selective math and science courses are not taken by all students, overall performance in these subjects may be related to participation within school systems or within the state. For example, if only the top 20 percent of students take a course, scores will necessarily be higher than if the top 50 percent take the course. Yield is an index of the effectiveness of a program which takes into account both participation and performance. It is based on the concept of yield presented in The Underachieving Curriculum and suggests that indices of program effectiveness should reflect not only "what students know" but also "how many know it". Yield is calculated for all selective course by multiplying the participation in a course by the average percent of core items answered correctly and then multiplying by 100. Yield would be 100 percent if all students took a course and all students achieved a perfect score. Statewide yield scores for selective courses are presented in Table 11 below.

¹Curtis McKnight, et. al., The Underachieving Curriculum: Assessing U.S. School Mathematics from an International Perspective. International Association for the Evaluation of Education Achievement, Stipes Publishing Company, Champaign, IL, 1987. McKnight did not quantify yield. The suggestion for quantifying yield as described above was made by Randy Harter, Mathematics Supervisor for Buncombe County Schools. He also suggested the effective yield index.



Table 11. Yield and Effective Yield for Selective Courses Since 1985-86

	•••Algebra I•••		•••Geometry••• •••Alge					· · · Physics · · ·		
	Yield	Effective Yield	Yield	Effective Yield	Yield	Effective Yield	Yield	Effective Yield	Yield	Effective Yield
1985-86	42.6	36.6								
1986-87	45.2	39.1	•							
1987-88	46.0	40.5			25.2	21.7				
1988-89	48.6	43.4	32.0	28.4	26.8	24.9	23.6	21.7		
1989-90	48.9	43.6	34.0	30.8	27.8	24.5	24.8	23.1	7.4	7.1

Gray areas indicate years prior to implementation.

As would be expected, yield scores are progressively lower as courses become more selective. A gain of 6.3 points in yield has occurred for Algebra I since 1985-86.

Effective yield is a similar index but it counts as "participating" in the course only those students whose achievement is above a cutoff point estimating that they will pass the course. Effective yield will be the same as yield only when all students taking a course achieve at or above the estimated passing score. While yield increases dramatically when participation increases, effective yield increases only when participating students achieve above a passing level. Statewide effective yields for selective courses are reported in Table 11. Yield and effective yield for all school systems are reported in Section V.

Figure 20 displays the trends in participation, average scores, yield, and effective yield for Algebra I since 1985-86. All indices have increased over the past 5 years. Gains in effective yield parallel gains in yield, indicating that the additional students taking Algebra I are capable of performing at acceptable levels.

Since the beginning of the End-of-Course Testing Program with the statewide Algebra I assessment in 1985-86 participation in Algebra I has been a concern. As mentioned above, Algebra I is an important course in high school; it is a gatekeeper for almost all advanced study in math and science. Several school systems have set goals for increased participation and have made progress in attaining those goals. For example, Richmond County set a criterion level at the 50th percentile on the mathematics section of the California Achievement Tests taken in the eighth grade¹, encouraging enrollment of all students who score

¹The CAT was used as an indicator of overall ability or achievement in advising students to take Algebra I. There are other tests that measure the likelihood of success in Algebra I.



above this point. Seeing that enrollment still was not at expectation, they enrolled all students between the 35th and 50th percentile in the two-year Algebra I program. Participation increased from 47.1 to 71.9 percent during the period from 1986 to 1990, and average scores increased from 32.2 to 37.3. Trends in participation, performance, yield, and effective yield for Richmond County are displayed in Figure 21.



Section III: Graphical Representations of Results



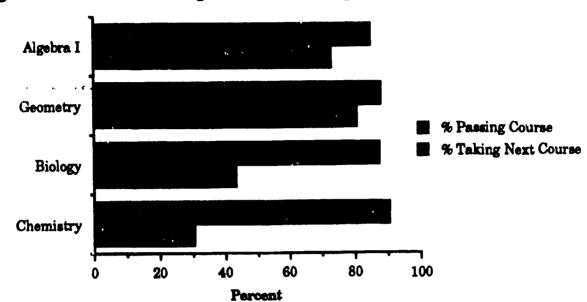


Figure 1. Estimated Percentage of Students Taking Next Course in Sequence

Observations:

- The estimated percentage of students taking the next course in the math sequence is somewhat lower than the percentage passing the previous course.
- The estimated percentage of students taking the next course in the science sequence in dramatically lower than the percentage passing the course.
- Less than half the students taking Biology go on to take Chemistry, and less than one third of the students taking Chemistry go on to take Physics.

Notes:

The typical math sequence is Algebra I -- Geometry -- Algebra II. The typical science sequence is Biology -- Chemistry -- Physics.

Data Source: Table 4



Black
White
Amer. Indian
Other

Figure 2. Percent of Algebra I Students by Grade Level and Ethnic Group

Observations:

- Although about 25 percent of Algebra I students are black, less than 14 percent
 of eighth-grade Algebra I students are black.
- The opportunity to participate in an accelerated math sequence by taking Algebra I in the eighth grade appears to vary by ethnic group.

Percent of Students

• Almost half the 4,938 students taking Algebra I in the eleventh grade are black. Students not completing Algebra I until the eleventh grade cannot complete the three year math sequence required by the University of North Carolina system prior to graduation.

Data Source: not in text. Table 5 gives overall proportions of Algebra I students by grade level.

24



U.S. History **English I** Male Female Physics Chemistry Biology Algebra II Geometry Algebra I K-12 Mbrship. 60 80 100 0 20 40

Percent of Students

Figure & Swroent of Students in Each Course by Sex

Observations:

- Except for Physics, a higher percentage of females than males are enrolled in selective math and science courses.
- Females and males are equally represented in the general courses taken by all students: Biology, U.S. History, and English I.

Data Source: Table 6



U.S. History English I Black **Physics** White Amer. Ind. Chemistry Other Biology Algebra II Geometry Algebra I K-12 Mbrship. 60 29 40 80 100

Percent of Students

Figure 4. Percent of Students in Each Course by Ethnic Group

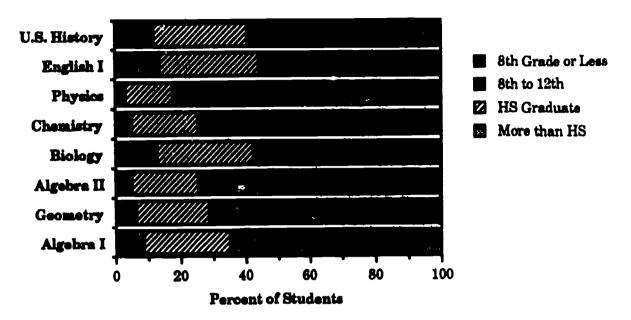
Observations:

- Black students represent slightly over 30 percent of the K-12 membership, and close to 30 percent of the enrollment in in the general courses of Biology, English I, and U.S. History.
- Based on their representation in the overall student population, black students are less likely than white students to be enrolled in selective math and science courses.
- Based on their representation in the overall student population, "other" students are more likely to be enrolled in selective math and science courses.
- As the courses become more advanced in the selective math and science sequences, fewer black students are enrolled.

Data Source: Table 6.



Figure 5. Percent of Students in Each Course by Level of Parental Education



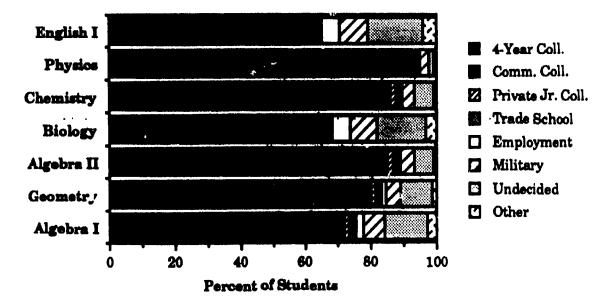
- In the general courses between 55 and 60 percent of students have one or more parents with education beyond high school.
- About 65 percent of Algebra I students have parents with beyond high school education, and the percentage increases as the courses become more advanced, with almost 82 percent of Physics students having parents with some education beyond high school.
- Students whose parents have no more than a high school education are less likely to take the advanced math and science courses.

Data Source: Table 6.



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Figure 6. Percent of Students in Each Course by Post Graduation Intentions



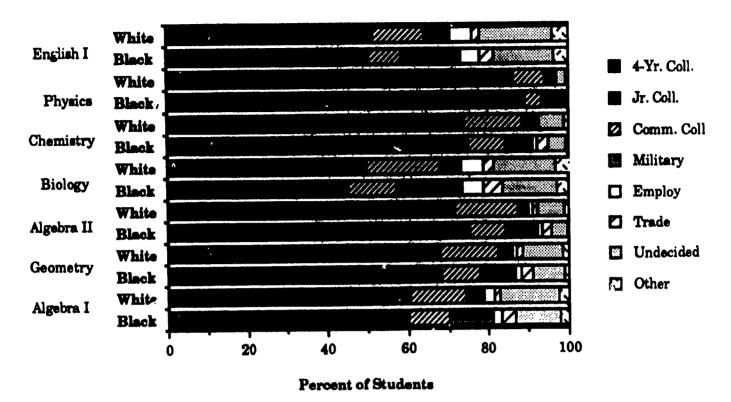
- A larger proportion of students in the advanced math and science courses intend to go to college than in the more general courses.
- While about 50 percent of the students in the general courses intend to go to college, more than 70 percent of Algebra II and Chemistry students, and more than 85 percent of Physics students, plan to go to college.
- More than 65 percent of students in general courses plan to further their education after high school, and more than 14 percent remain undecided and may yet choose to continue their education.
- The percentage of undecided students decreases as the courses become more selective.

Note:

Post high school plans were not collected for U.S. History students.



Figure 7. Percent of Students in Each Course by Ethnic Group and Post Graduation Plans



- In Algebra I, Geometry, Chemistry, and English I there is no difference between black and white students in the proportion who intend to go to college.
- In the most advanced math and science courses, Algebra II and Physics, a higher percentage of black students plan to attend college.
- In general, a higher percentage of white students than black students plan to attend a community college, while a higher percentage of black students than white students plan to enlist in military service.
- In all courses, smaller proportions of black students are undecided about their post graduation plans.

Note:

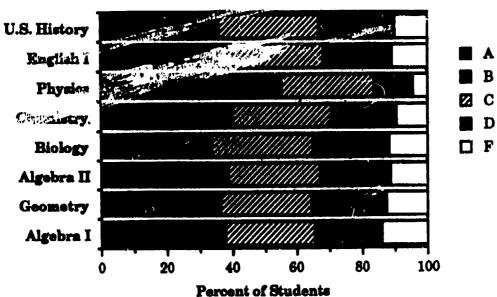
Post high school plans were not collected for U.S. History students.

Data Source: not in report. Table 6 contains the overall propotions of students for each post graduation plan.



43

Figure 8. Percent of Students in Each Course by Anticipated Final Grade



- Except for Physics, grading patterns are consistent across high school subjects; similar percentages of students are receiving each letter grade.
- Algebra I has a somewhat higher failure rate, reflecting its perceived status as a screening course for other advanced math and science courses.



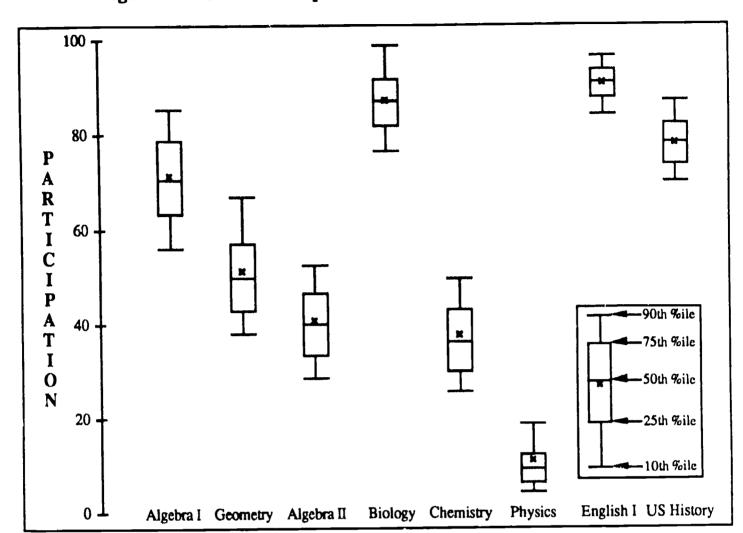


Figure 9. Plots of Participation Indices for 134 School Systems

- The variation in participation indices among the 134 school systems tends to be narrower for the general courses, and wider for the more advanced, selective courses.
- The widest variation in participation occurs for Algebra I and Geometry. Ten percent of school systems have Algebra I participation rates over 85 and 10 percent have participation rates under 57.
- Physics is a very selective course, with less than 10 percent of school systems having participation rates over 20.

Note:

Box and whisker plots illustrate not only the typical values of mean and median, but also the range in values. They are useful in evaluating the scope of variation among groups, and for comparing the high and low values for different groups.

Data Source: Section V.



Average Algebra I Scores B D Year

Figure 10. Statewide Average Algebra I Scores: 1986-1990

• Average core scores in Algebra I have increased from a "C" level to a "C+" or "B-" level according to 1985-86 grading standards.

Notes:

Teachers recorded the final grade they anticipated giving each student at the time of the test administration. The dotted gray lines indicate statewide average scores for each anticipated final grade for the 15%5-86 administration of the Algebra I Test, and reflect grading standards at the initial administration. As can be seen in Figure 18 below, the grading standards have increased with each test administration.



Figure 11. Statewide Average Biology Scores: 1987-1990

• Average core scores in Biology have increased from a "C" level to a "C+" level according to 1987-88 grading standards.

Notes:

Teachers recorded the final grade they anticipated giving each student at the time of the test administration. The dotted gray lines indicate statewide average scores for each anticipated final grade for the 1986-87 administration of the Biology Test, and reflect grading standards at the initial administration. As can be seen in Figure 18 below, the grading standards increase with each test administration.



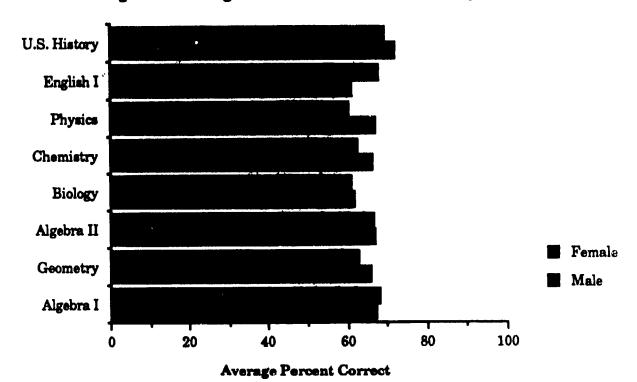


Figure 12. Average Percent Correct on Core Tests by Sex

- Average differences by sex are minimal for Algebra I, Algebra II, and Biology.
- The largest sex differences in performance occur in English I and Physics, with females averaging about 7 percentage points higher in English I and males averaging about 6.5 percentage points higher in Physics.
- Males average several percentage points higher than females in Geometry, Chemistry, and U.S. History.



U.S. History English **Physics** Chemistry Other Biology Amer. Ind. Algebra II White Geometry Black Algebra I 100 60 80 **Average Percent Correct**

Figure 13. Average Percent Correct on Core Tests by Ethnic Group

- Average differences by ethnic group occur for all subjects.
- On average, white students and "other" students scored higher than black students and American Indian students.



U.S. History English I Physics. Chemistry More than HS Biology HS Graduate Algebra II 8th to 12th Geometry 8th Grade or Less Algebra I 80 100 60 **Average Percent Correct**

Figure 14. Average Percent Correct on Core Tests by Parental Education

- Average score differences by parental education occur for all subjects.
- The largest difference is between averages for students whose parents have some education past high school and all other students.
- In the select math and science courses the differences among students whose parents have a high school education or less are small.

Note:

Students recorded the education level of the parent with the most education.



English I **Other Physics** Undecided Chemistry Military ☐ Employment Biology Trade School Algebra II Private Jr. Coll. Comm. Coll. Geometry 4-Year Coll. Algebra I 80 100 60 20 40 0

Figure 15. Average Percent Correct on Core Tests by Post High School Plans

- Students who plan to continue their education in a four-year college score substantially higher on average than students with other post high school plans.
- In the selective math courses there is very little difference in average performance among students who intend to work, enlist in the military, attend trade or business schools, attend community colleges, or attend private junior colleges.

Average Percent Correct

Data Source: Table 9.



37

100 **Average Percent Correct** 90 80 В 70 C 60 D F 50 40 30 English I Biology Physics US History Algebra II Geometry Chemistry

Fibure 16. Percent Correct Scores by Course and Letter Grade

- There is a consistent difference in average scores for each anticipated final grade across all subjects, which is an indication of test validity, in that the results parallel the grading practices of teachers for students' work over the course of the school year.
- The range of average scores for each letter grade is narrower for the two selective science courses than for the other courses.

Notes:

Teachers recorded the final grade they anticipated giving each student at the time of the test administrations.



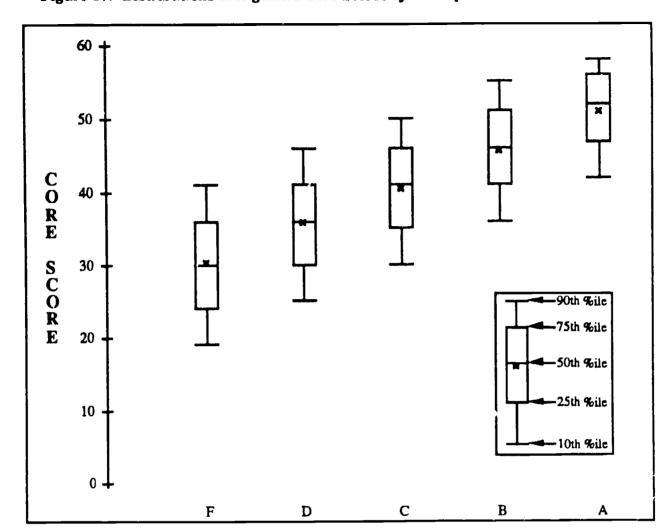


Figure 17. Distributions of Algebra I Core Scores by Anticipated Final Grade: 1990

- The box and whisker plots illustrate the variation in anticipated final grades when compared with a common standard: scores on the Algebra I Test.
- The range of scores reflects differences in grading standards across tracks, teachers, schools, and school systems.

Notes:

Box and whisker plots illustrate not only the typical value such as a mean or median, but also the range in values. They are useful in evaluating the variation among groups, and for comparing the high and low values for different groups.

The companion subject area volumes contain average scores for each letter grade group and percentages of students attaining each letter grade for all public school systems. In those volumes it can be seen that although there are differences in standards across school systems, within most school systems the average scores for each letter grade group differ in a systematic way, paralleling performance on the end-of-course tests.

Data Source: not in text



60 55 50 45 В 40 C 35 D 30 F 25 20 15 1986 1988 1989 1990 1987 Year

Figure 18. Average Algebra I Scores by Anticipated Final Grade: 1986-1990

- An increase in average scores for each letter grade has paralleled the increase in overall average scores.
- It appears that grading standards for students have become more stringent as overall achievement has increased.

Notes:

Teachers recorded the final grade they anticipated giving each student at the time of test administration.

Data Source: Reports of Student Performance for Algebra I, 1986 through 1989.



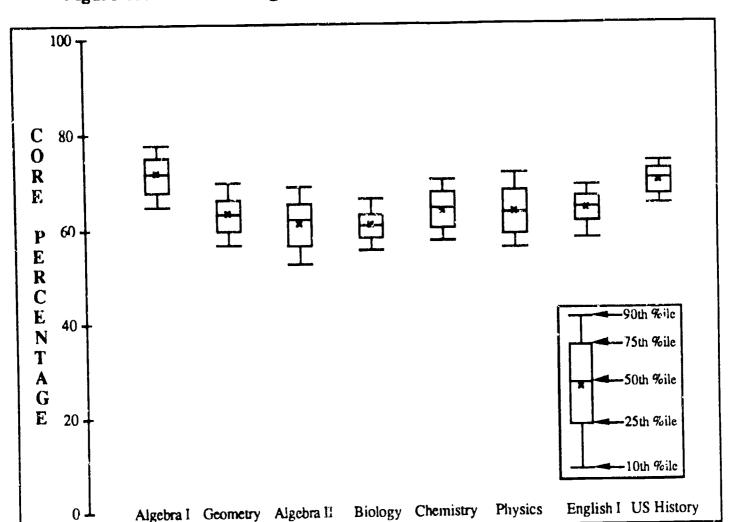


Figure 19. Plot of Average Core Performance for 134 School Systems.

- The widest variations in school system performance occur among the selective courses in math and science, with narrower differences among most school system averages occuring for the general courses of Biology, English I, and U.S. History.
- For U.S. History, the range of average scores for the middle 50 percent of school systems is about 3 test items (5 percentage points), or slightly more than half a letter grade on the grading scale.
- For Algebra II, the range for the middle 50 percent of school systems is about 5 items (about 10 percentage points), or an entire letter grade.

Note:

Box and whisker plets illustrate not only the typical value such as a mean or median, but also the range in values. They are useful in evaluating the variation among groups, and for comparing the high and low values for different groups.

Data Source: Section V.



Figure 20. Participation, Average Scores, Yield, and Effective Yield for Algebra I: 1986-1990 100 90 Participation 80 Core Scores Percent 70 60 Yield 50 Effective Yield 40 1986 1988 1989 1987 1990 Year

- Since the initial administration in 1986, participation and average scores have increased, resulting in increases in yield and effective yield.
- Gains in effective yield have paralleled gains in yield, indicating that the additional students taking Algebra I are capable of performing at acceptable levels.

Notes:

Yield is an index of the effectiveness of a program which takes into account both participation and performance. It is calculated by multiplying the participation in a course by the average percent of core items answered correctly and then multiplying by 100. Yield would be 100 if all students took a course and all students achieved a perfect score. Effective yield is a similar index but it counts as "participating" only those students whose achievement is above a cutoff point estimating whether they will pass the course.

Data Source: Tables 3, 8, and 11.



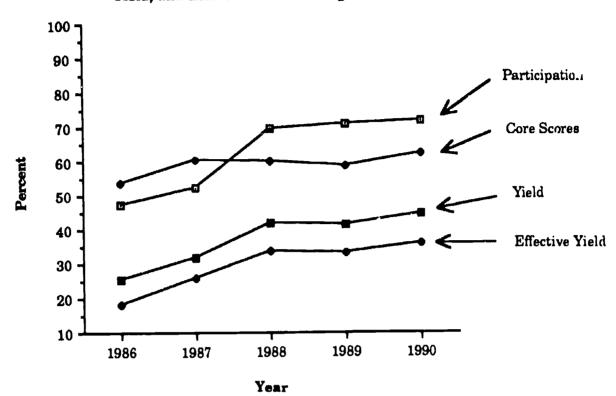


Figure 21. Richmond County Participation, Average Scores, Yield, and Effective Yield for Algebra I: 1986-1990

- Since the initial administration in 1986, participation in Algebra I in Richmond County has increased dramatically.
- The increase in participation has been accompanied by an increase in performance, and a corresponding increase in yield and effective yield.
- These results suggest that school systems can increase participation in Algebra I, and increase performance at the same time.

Data Source: not in text.



Figures 22-26. Average Algebra I Core Scores and Participation for School Systems Grouped by 1989-90 8th Grade California Achievement Test Total Battery Scores.

Observations:

- The range in participation among school systems with similar average ability, as measured by the 8th grade California Achievement Test, is almost as great as the range among all school systems.
- Variation in participation cannot be explained totally by variations in the ability levels of students populations.

Notes:

School systems are arranged in alphabetical order within groups.

Data Source: not in text.



Figure 22

Average Algebra I Core Scores and Participation for School Systems Scoring at the 65th Percentile or Above on the 1989-90 8th Grade CAT

School Systems are arranged in alphabetical order School System Ashe County **Burlington City** Cabarrus County Camden County Chapel Hill City Cherokee County Chowan County Clay County **Dare County Davie County Durham County** Forsyth County Hickory City

> Wake County Watauga County

> Jackson County

Mount Airy City

Stanly County

20 40 Average Core Score State Average=40.6

80 100 Percent of Class

State Averages indicated by arrows.

60

State Percentage • 72.3

0

Figure 23
Average Algebra I Core Scores and Participation for School Systems
Scoring at the 60th-65th Percentile on the 1989-90 8th Grade CAT

School Systems are arranged in alphabetical order School System **Alamance County** Albemarle City Alleghany County Asheboro City Asheville City **Buncombe Countyy** Catawba County Davidson County Elkin City **Graham County** Greensboro City **Gullford County Haywood County** Hendersonville City Macon County Mitchell County Moore County Mooresville City **New Hanover County** Pamilco County Roanoke Rapids City Rockingham County Shelby City Swain County Tyrell County Union County Yadkin County 80 100 60 40 20 20 60 Average Core Score Percent of Class

State Average=40.6



State Averages indicated by arrows.

State Percentage=72.3

Figure 24

Average Algebra I Core Scores and Participation for School Systems

Scoring at the 55-59th Percentile on the 1989-90 8th Grade CAT

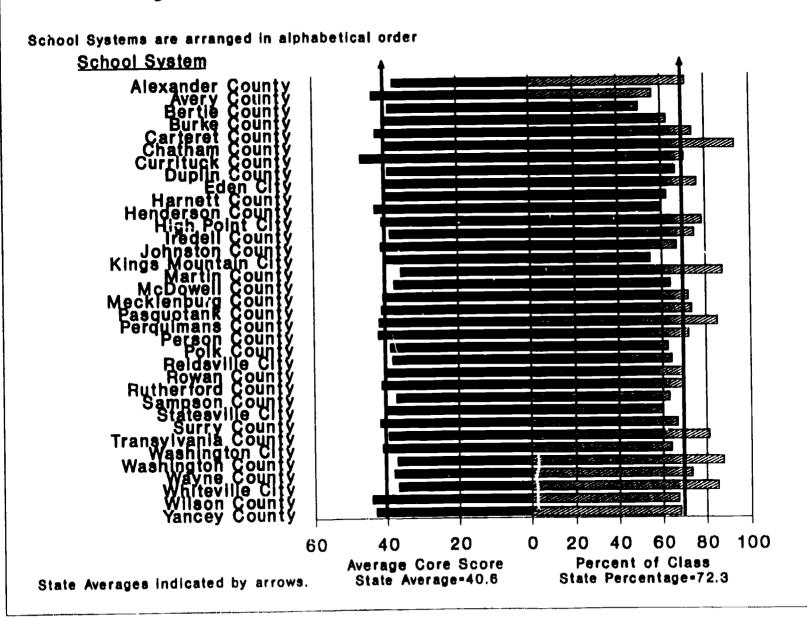




Figure 25 Algebra I Core Scores and Participation for School Systems Scoring at the 50-54th Percentile on the 1989-90 8th Grade CAT

School Systems are arranged in alphabetical order

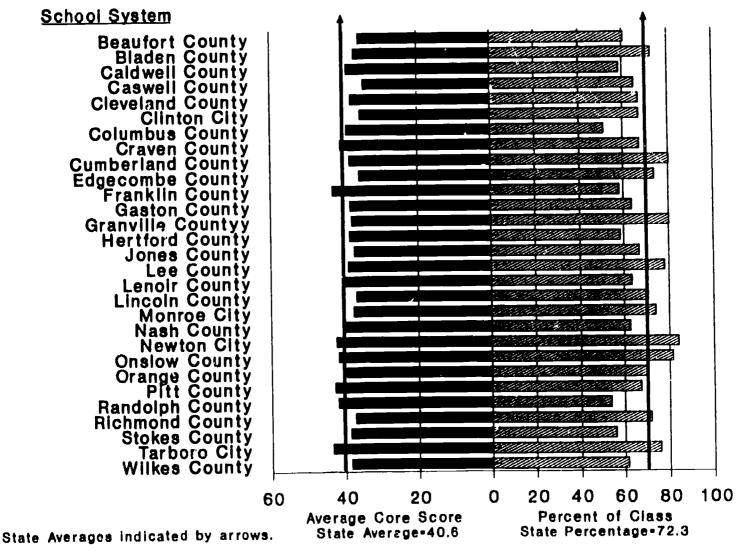
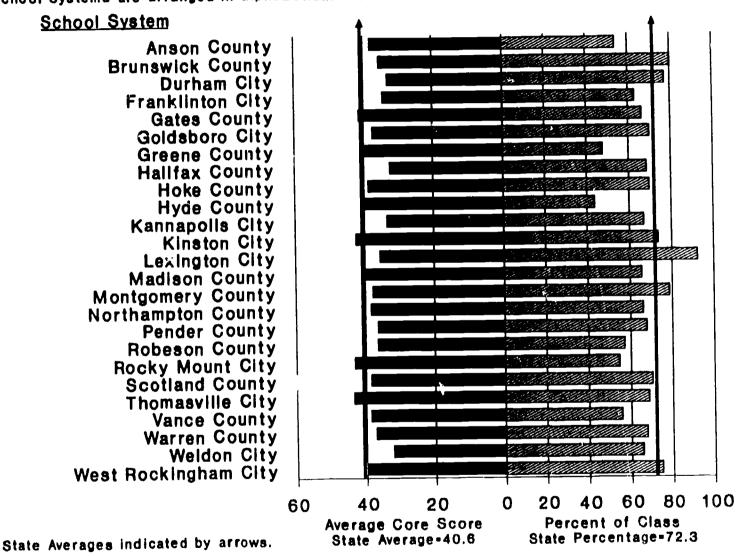




Figure 26
Average Algebra I Core Scores and Participation for School Systems
Scoring Below the 50th Percentile on the 1989-90 8th Grade CAT

School Systems are arranged in alphabetical order





Section IV

Outstanding School Systems



Outstanding School Systems: 1989-90 Performance on End-of-Course $Tests^1$

2. Dare County (73.5%) 2. Dare County (3.5%) 3. Tyrrell County (50.0%) 3. Hickory	Hill City (98.1%)
2. Dare County (73.5%) 2. Dare County (3.5%) 3. Tyrrell County (50.0%) 3. Hickory	
3. Tyrrell County (50.0%) 3. Hickory	JULIUY (O I O /O /
	City (78.7%)
4. Watauga County (68.0%) 4. Roanok	e Rapids City (91.1%)
	ity (102.7%)
	County (92.1%)
T7. Elkin City (84.3%) T5. Hender	sonville City (127.0%)
	ga County (89.9%)
	County (86.9%)
10. Wilson County (67.3%) 10. Davie C	County (77.5%)
	Airy City (103.7%)
12. Tarboro City (75.8%) 12. Macon	County (83.2%)
T13. Avery County (56.5%) T13. Burling	gton City (98.2%)
T13. Ashe County (60.4%) T13. Cartere	et County (92.5%)
T13. Thomasville City (68.6%) T14. Moores	ville City (113.2%)
T14. Cabarr	us County (83.4%)
	ol systems were with 1
	ore point of the 15th
	system.
Rank Geometry Rank	Chemistry
	City (50.8%)
Z. Chaper zim only (control)	wille City (26.1%)
	County (35.1%)
	ke Rapids City (45.6%)
0. 110110	ga County (28.9%)
0, 0000, 000	vlvania (30.9%)
The state of the s	County (58.9%)
	mans County (31.2%)
J. 2100110110 1 J.	Mount City (26.9%)
	county (18.7%)
110.	County (33.5%) rford County (22.0%)
12.	l Hill City (56.4%)
10. 1411003 0041103 (201210)	
1 2 2 1	County (29.9%)
T14. Hendersonville City (45.2%) T13. Durham	m County (46.4%)
11 school systems were within 8 school	ol systems were within 1
	ore point of the 15th
	system

¹T means tie. Participation indices are in parentheses.



Outstanding School Systems: 1989-90 Performance on End-of-Course Tests, cont'd. 1

Desla	Algebra II	Rank	Physics
Rank	Algebra II	1,	Mooresville City (6.5%)
1.	Chapel Hill City (58.0%)	2.	Chapel Hill City (46.0%)
2.	Watauga County (36.7%)	2. 3.	Asheboro City (6.1%)
3.	Dare County (51.3%)	3. 4.	Watauga County (10.3%)
4.	Perquimans County (36.8%)	5.	Chowan County (5.6%)
5.	Currituck County (35.3%)		Carteret County (7.2%)
6.	Chatham County (40.0%)	T6. T6.	Rutherford County (5.5%)
7.	Carteret County (39.3%)	8.	Pasquotank County (3.5%)
8.	Albemarle City (50.7%)	T9.	Clay County (11.8%)
9.	Wake County (65.2%)		Davie County (6.2%)
10.	Greene County (34.4%)	T9.	Lenoir County (3.6%)
11.	Chowan County (43.4%)	11.	
12.	Kinston City (34.4%)	12.	Mitchell County (7.4%)
13.	Rocky Mount City (25.6%)	T13.	Albemarle City (13.2%)
14.	Pitt County (38.7%)	T13.	Henderson County (5.8%) Wings Mountain City (3.6%)
T15.	Gates County (37.0%)	15.	Kings Mountain City (3.6%)
T15.	Clinton City (40.1%)	ı	
	6 school systems were within		7 school systems were within 1
	1 raw score point of the 15th		raw score point of the 15th
ł	school system.		school system.
Rank		Rank	English I
1.	Wake County (84.9%)	1.	Elkin City (100.0%)
2.	Montgomery County (74.4%)	2.	Chapel Hill City (93.0%)
3.	Dare County (99.5%)	3.	Whiteville City (95.5%)
4.	New Hanover County (81.7%)	4.	Hickory City (87.3%)
5.	Hickory City (76.9%)	5.	Roanoke Rapids City (92.5%)
6.	Davie County (74.5%)	6.	Burlington City (97.4%)
7.	Elkin City (100.0%)	7.	Hendersonville City (119.2%)
T8.	Chapel Hill City (93.3%)	8.	Mooresville City (89.4%)
T8.	Watauga County (78.7%)	9.	Wake County (93.0%)
10.	Macon County (81.1%)	10.	Perquimans County (86.8%)
T11.	Union County (80.4%)	11.	Cherokee County (85.2%)
T11.	Burlington City (82.3%)	12.	Mount Airy City (88.4%)
T11.	Cabarrus County (83.7%)	T13.	Mitchell County (90.3%)
14.	Hendersonville City (110.7%)	T13.	Currituck County (87.8%)
T15.	Henderson County (71.8%)	T13.	Cabarrus County (88.1%)
T15.	Randolph County (72.2%)		-
T15.	Currituck County (89.2%)	ļ	
		1	
	22 school systems were within		8 school systems were within 1
	22 school systems were within 1 raw score point of the 15th		8 school systems were within 1 raw score point of the 15th school system.

 $^{^{1}\}mathrm{T}$ means tie. Participation indices are in parentheses.



Outstanding School Systems: 1989-90 Participation in Selective Courses

Rank	Algebra I	Rank	Chemistry
1.	Hendersonville City	1.	Albemarle City
2.	Albemarle City	2.	Shelby City
3.	Mount Airy City	3.	Hendersonville City
4.	Mitchell County	4.	Wake County
5.	Chatham County	5.	Gates County
6.	Lexington City	6.	Whiteville City
7.	New Hanever County	7.	Chapel Hill City
8.	Stanly County	8.	New Hanover County
9.	Wake County	9.	Eden City
10.	Washington County	10.	Tarboro City
11.	Martin County	11.	Wayne County
12.	Durham County	12.	Elkin City
13.	Hickory City	13.	Alleghany County
14.	Whiteville City	14.	Dare County
15.	Perquimans County	15.	Weldon City
	7 school systems were within 3	1	7 school systems were within 3 percentage
	percentage points of the 15th system.		points of the 15th system.
Rank	Geometry	Rank	Physics
1.	Chapel Hill City	1.	Chapel Hill City
2.	Clay County	2.	Whiteville City
3.	Swain County	3.	Eden City
4.	Elkin City	4.	Transylvania County
5.	Albemarle City	5.	Wake County
6.	New Hanover County	6.	Weldon City
T7 .	Jones County	7.	Tyrrell County
T7.	Guilford County	8.	Burlington City
9.	Burlington City	9.	Hendersonville City
10.	Durham County	10.	Camden County
11.	Perquimans County	11.	Mount Airy City
12.	Mount Airy City	12.	Gates County
T13.	Asheboro City	T13.	Tarboro City
T13.	Chatham County	T13.	Alexander County
15.	Kannapolis City	15.	Durham County
	5 school systems were within 3 percentage points of the 15th system.		9 school systems were within 3 percentage points of the 15th system.

Rank Algebra II

- 1. Hendersonville City
- 2. Elkin City
- 3. Wake County
- 4. Shelby City
- 5. Roanoke Rapids City
- 6. Chapel Hill City
- 7. Cherokee County
- 8. Kannapolis City
- 9. Mount Airy City
- 10. Durham County
- 11. Macon County
- 12. Cabarrus County
- 13. Forsyth County
- 14. Hickory City
- 15. Dare County

11 school systems are within 3 percentage points of the 15th system.

¹T means tie.



Outstanding School Systems: 1989-90 Yield in Selective Courses l

Rank	Algebra I	Rank	Chemistry				
¥.	Albemarle City	1.	Albemarle City				
2	Hendersonville City	2.	Hendersonville City				
3 .	Chapel Hill City	3.	Wake County				
4.	Wake County	4.	Chapel Hill City				
5.	Mount Airy City	5.	Shelby City				
6.	Mitchell County	6.	Elkin City				
7.	Elkin City	7.	Whiteville City				
8.	Chathem County	T8.	New Hanover County				
9.	Hickory City	T8.	Alleghany County				
10.	Durham County	10.	Dare County				
31.	Dare County	11.	Gates County				
12.	Stanly Councy	12.	Roanoke Rapids City				
13.	Newton City	13.	Durham County				
14.	Perquimans County	14.	Eden City				
15.	Camden County	15.	Guilfora County				
	9 school systems were within 3 points of		10 school systems were within 3 points of				
	the 15th system.	İ	the 15th system.				
Rank	Geometry	Rank	Physics				
1.	Chapel Hill City	1.	Chapel Hill City				
T2.	Clay County	2	Wake County				
T2.	Albemarie City	3.	Whiteville Cit;				
4.	Elkin City	4.	Eden City				
T5.	Wake County	5.	Transylvania County				
T5.	Burlington City	6.	Burlington City				
7.	Swain County	7.	Hendersonville City				
8.	Durham County	8.	Camden County				
9.	New Hanover County	9.	Durham County				
10.	Guilford County	10.	Mount Airy City				
11.	Mount Airy City	11	Pitt County				
12.	Perquimans County	12.	Cherokee County				
13.	Hickory City	13.	Tyrrell County				
	Chathani County	14.	Tarboro City				
	- · · · · · · · · · · · · · · · · · · ·		A1 Jan Özumbar				
14. 15.	Asheboro City	15.	Alexander County				
14.	Asheboro City	15.	16 school systems were within 3 points of				
14.	- · · · · · · · · · · · · · · · · · · ·	15.	-				

Rank	Algebra
1.	Hendersonville City

- 2. Elkin City
- 3. Chapel Hill City
- 4. Wake County
- 5. Dare County
- 6. Cherokee County
- 7. Mount Airy City
- 8. Durham County
- 9. Roano'te Rapids City
- 10. Forsyth County
- 11. Albemarle City
- 12. Cabarrus County
- 13. Hickory City
- T14. Macon County
- T14. Shelby City

8 school systems are within 3 percentage points of the 15th system.



¹I means ue

Outstanding School Systems: 1989-90 Effective Yield in Selective Courses 1

Rank	Algebra I	Rank	Chemistry					
1.	Albemarle City	1.	Albemarle City					
2.	Hendersonville City	2.	Wake County					
3.	Wake County	3.	Hendersonville City					
4.	Mount Airy City	4.	Chapel Hill City					
5.	Chapel Hill City	5.	Elkin City					
6.	Elkin City	T6.	Whiteville City					
7.	Dare County	T6.	Shelby City					
8.	Camden County	8.	Alleghany County					
9.	Mitchell County	9.	Dare County					
10.	Newton City	10.	New Hanover County					
11.	Chatham County	11.	Roanoke Rapids City					
12.	Perquimans County	12.	Durham County					
13.	Durham County	13.	Guilford County					
14.	Chowan County	14.	Burlington City					
15.	Hickory City	15.	Greensboro City					
20.	•	•	and the second s					
	9 school systems were within 3 points of	<u> </u>	10 school systems were within 3					
	the 15th system.		points of the 15th system.					
Rank	Geometry	Rank	Physics Charel Hell City					
1.	Chapel Hill City	1. 2.	•					
2.	Albemarle City	l.	Wake County					
3.	Clay County	3.	Whiteville City					
4.	Elkin City	4.	Eden City					
5.	Wake County	5. 6.	Burlington City					
6.	Burlington City	7.	Transylvania County					
7.	Durham County	8.	Hendersonville City Camden County					
8.	Perquimans County	9.	Durham County					
T9.	Hickory City	10.	Pitt County					
T9.	Guilford County	10.	Mount Airy City					
11.	New Hanover County	12.	Cherokee County					
12.	Mooresville City	13.	Tarboro City					
13.	Mount Airy City	T14.	New Hanover County					
14.	Chatham County	T14.	Alexander County					
15.	Asheboro City	1 ***	inexamer country					
	3 school systems were within 3 points of	1	17 school systems were within 3 points of					
	the 15th system.		the 15th system.					
	Rank	Algeb	ra II					

2.	Elkin City
3.	Chapel Hill City
4.	Wake County
5.	Dare County
6.	Mount Airy City
7.	Cherokee County
8.	Durham County
9.	Albemarle City
10.	Forsyth County
11.	Cabarrus County
12.	Roanoke Rapids City

Hendersonville City

1.

3 school systems are within 3 points of the 15th system.

¹T means tie.



^{13.} Hickory City
14. Macon County

^{15.} Newton City

Outstanding School Systems: Gain in Performance 1989 to 1990^{1}

Rank	Algebra I	Rank	Biology
Kank 1.	Avery County	1.	Pamlico County
2.	Yancey County	2.	Polk County
3.	Hyde County	3.	Mooresville City
74.	•	4.	Jones County
	Anson County	T5.	Pasquotank County
T4.	Washington County	T5.	Cabarrus County
T4.	Thomasville City	7.	Swain County
7.	Bertie County	T8.	Warren County
8.	Hertford County	T8.	Washington City
9.	Clay County	10. 10.	Thomasville City
10.	Swain County	10. 11.	Surry County
T11.	Camden County	11. 12.	Kannapolis City
T11.	Albemarle City		- -
T11.	Hendersonville City	T13.	Transylvania County
T11.	Weldon City	T13.	Perquimans County
15.	Alamance County	15.	Hickory City
	10 school systems were within 1 raw score point of the 15th system.		15 school systems were within 1 raw score point of the 15th system.
Rank	Geometry	Rank	Chemistry
1.	Bladen County	1.	Perquimans County
2.	Dare County	2.	Franklinton City
3.	Macon County	3.	Thomasville City
4.	Franklinton City	4 .	Yancey County
T5.	Clay County	5.	Elkin City
75.	Elkin City	6.	Kannapolis City
T5.	Tyrrell County	7.	Edgecombe County
8.	Weldon City	8.	Jones County
9.	Edgecombe County	9.	Hendersonville City
10.	Casy Il County	10.	Hyde County
11.	Asheboro City	11.	Hoke County
T12.	Jackson County	12.	Henderson County
T12.	Cabarrus County	T13.	Wilson County
T14.	Anson County	T13.	Tyrrell County
T14.	Polk County	15.	Kings Mountain City
T14.	Harnett County]	
	25 school systems were within 1 raw score point of the 15th system.		18 school systems were within 1 raw score point of the 15th system.
Rank	Algebra II	Rank	U.S. History
1.	Lincoln County	1.	Richmond County
T2.	Hendersonville City	2.	Warren County
T2.	Elkin City	3.	Franklinton City
4.	Martin County	4.	Hyde County
T5.	Newton City	T5.	Gates County
T5.	Surry County	T5.	Bertie County
7.	McDowell County	T5.	Haywood County
8.	Perquimans County	8.	Scotland County
9.	Greene County	9.	Forsyth County
10.	Burlington City	T10.	Thomasville City
11.	Kannapolis City	T10.	Goldsboro City
12.	Kings Mountain City	T12.	Vance County
13.	Swain County	T12.	Whiteville City
14.	Albemarle City	14.	Graham County
T15.	Hyde County	15.	Caswell County
T15.	Kinston City	Ì	
	13 school systems were within 1 raw score point of the 15th system.		31 school systems were within 1 raw score point of the 15th system.

¹T means tie.



Outstanding School Systems: Gain in Participation 1989 to 1990^{1}

Rank	Algebra I	Rank	Geometry
1.	Mitchell County	1.	Clay County
2 .	Halifax County	2.	
3.	Weldon City	3.	Chatham County
4.	Tarboro City	4.	<u> </u>
5.	Edgecombe County	5.	Perquimans County
T6.	Durham City	6.	Mount Airy City
T6.	Pamlico County	7 .	Camden County
8.	Lexington City	8.	
9.	Chowan County	9.	Graham County
10.	Clinton City	10.	Swain County
11.	Jackson County	11.	Chapel Hill City
12.	Madison County	12.	
	Newton City	13.	
	Albemarle City	14.	Washington County
15.	Rutherford County	15.	Lincoln County
	8 school systems were within		6 school systems were with 3
	3 percentage points of the 15th		percentage points of the 15th
İ	school system.	Ì	school system.
	school system.	<u> </u>	
Rank	Algebra II	Rank	
1.	Cherokee County	1.	Whiteville City
2.	Alleghany County	2.	Gates County
3.	Polk County	3.	<u>=</u>
4.	Elkin City	4.	
5.	Swain County	5.	-
6.	Mount Airy City	6.	Clinton City
T7.	Macon County	7.	Albemarle City
T7.	Reidsville City	8.	Polk County
9.	Hickory City	9.	Elkin City
10.	Transylvania County	10.	
11.	Currituck County	11.	Alleghany County
T12.	Goldsboro City	12.	Reidsville City
T12.	Pasquotank County	13.	
14.	Eden City	14.	Onslow County
15.	Stanly County	15.	Orange County
	11 school systems were within 3 percentage points of the 15th school system.		13 school systems were within 3 percentage points of the 15th school system







Outstanding School Systems: Gain in Yield 1989 to 1950^{1}

Donle	Algolius I	Donl	Coamatan
Rank	Algebra I Mitchell County	Rank	Gecmetry Clay County
2.	Tarboro City	2.	Jones County
3.	Albemarle City	2. 3.	Chatham County
T4.	•	4.	Kings Mountain City
T4.	Chowan County	5.	Chapel Hill City
T4.	<u> </u>	6.	Mooresville City
7.	Newton City	7.	Jackson County
8.	Edgecombe County	8.	Rowan County
9.	Jackson County	9.	Mount Airy City
10.	Madison County	10.	Perquimans County
11.	Lexington City	11.	Bladen County
12.	Halifax County	12.	Granville County
13.	Rutherford County	13.	Asheboro City
14.	Iredell County	14.	New Hanover County
15.	Currituck County	15.	Camden County
	11 school systems were within 3 points of the 15th school system.		13 school systems were with 3 points of the 15th school system.
Rank	Algebra II	Rank	Chemistry
1.	Elkin City	1.	Elkin City
2.	Cherokee County	2.	Whiteville City
3.	Swain County	3.	Roanoke Rapids City
4.	Alleghany County	4.	Columbus County
5.	Mount Airy City	5.	Albemarle City
6.	Transylvania County	6.	Alleghany County
7.	Eden City	7.	Gates County
פיוי ו			-
T8.	Macon County	8.	Goldsboro City
Т8.	Currituck County	9.	Goldsboro City Stanly County
T8. 10.	Currituck County Dare County	9. 10.	Goldsboro City Stanly County Clinton City
T8. 10. T11.	Currituck County Dare County Hickory City	9. 10. 11.	Goldsboro City Stanly County Clinton City Onslow County
T8. 10. T11. T11	Currituck County Dare County Hickory City Lincoln County	9. 10. 11. 12.	Goldsboro City Stanly County Clinton City Onslow County Edgecombe County
T8. 10. T11. T11. T11.	Currituck County Dare County Hickory City Lincoln County Goldsboro City	9. 10. 11. 12. 13.	Goldsboro City Stanly County Clinton City Onslow County Edgecombe County Sampson County
T8. 10. T11. T11. T11. 14.	Currituck County Dare County Hickory City Lincoln County Goldsboro City Stanly County	9. 10. 11. 12. 13.	Goldsboro City Stanly County Clinton City Onslow County Edgecombe County Sampson County Beaufort County
T8. 10. T11. T11. T11.	Currituck County Dare County Hickory City Lincoln County Goldsboro City	9. 10. 11. 12. 13.	Goldsboro City Stanly County Clinton City Onslow County Edgecombe County Sampson County
T8. 10. T11. T11. T11. 14.	Currituck County Dare County Hickory City Lincoln County Goldsboro City Stanly County	9. 10. 11. 12. 13.	Goldsboro City Stanly County Clinton City Onslow County Edgecombe County Sampson County Beaufort County
T8. 10. T11. T11. T11. 14.	Currituck County Dare County Hickory City Lincoln County Goldsboro City Stanly County Surry County	9. 10. 11. 12. 13.	Goldsboro City Stanly County Clinton City Onslow County Edgecombe County Sampson County Beaufort County Hyde County





Outstanding School Systems: Gain in Effective Yield 1989 to 1990^{1}

Rank	Algebra I	Rank	Geometry
1.	Albemarle City	1.	Clay County
2.	Mitchell County	2.	Jones County
3.	Tarboro City	3.	Chatham County
4.	Chowan County	4.	Kings Mountain City
T5.	Washington County	5.	Bladen County
T5.	Pamlico County	6.	Mooresville City
7.	Yancey County	7.	Perquimans County
8.	Newton City	8.	Burlington City
9.	Goldsboro City	9.	Chapel Hill City
10.	Weldon City	10.	Granville County
11.	Madison County	11.	Jackson County
12.	Iredell County	12 .	Asheboro City
13.	Rutherford County	13.	·
14.	Edgecombe County	14.	New Hanover County
15.	Jackson County	15.	Guilford County
10.	January and the same of the sa		
1	10 school systems were within		16 school systems were with 3
	3 points of the 15th school		points of the 15th school
	system.		system.
	·		
Rank	Algebra II	Rank	Chemistry
1.	Elkin City	1	Elkin City
2.	Cherokee County	2	Whiteville City
			The state of the s
3.	Mount Airy City	3	Roanoke Rapids City
3. 4.	Mount Airy City Albemarle City	4	Roanoke Rapids City Albemarle City
1		4 5	Roanoke Rapids City Albemarle City Columbus County
4.	Albemarle City	4 5 6	Roanoke Rapids City Albemarle City Columbus County Alleghany County
4. 5.	Albemarle City Swain County	4 5 6 7	Roanoke Rapids City Albemarle City Columbus County Alleghany County Edgecombe County
4. 5. 6.	Albemarle City Swain County Hendersonville City	4 5 6 7 8	Roanoke Rapids City Albemarle City Columbus County Alleghany County Edgecombe County Stanly County
4. 5. 6. T7.	Albemarle City Swain County Hendersonville City Currituck County	4 5 6 7 8 9	Roanoke Rapids City Albemarle City Columbus County Alleghany County Edgecombe County Stanly County Goldsboro City
4. 5. 6. T7. T7.	Albemarle City Swain County Hendersonville City Currituck County Transylvania County	4 5 6 7 8 9	Roanoke Rapids City Albemarle City Columbus County Alleghany County Edgecombe County Stanly County Goldsboro City Clinton City
4. 5. 6. T7. T7.	Albemarle City Swain County Hendersonville City Currituck County Transylvania County Dare County	4 5 6 7 8 9 10 11	Roanoke Rapids City Albemarle City Columbus County Alleghany County Edgecombe County Stanly County Goldsboro City Clinton City Sampson Sunty
4. 5. 6. T7. T7. 9.	Albemarle City Swain County Hendersonville City Currituck County Transylvania County Dare County Macon County Lincoln County Eden City	4 5 6 7 8 9 10 11 T12	Roanoke Rapids City Albemarle City Columbus County Alleghany County Edgecombe County Stanly County Goldsboro City Clinton City Sampson Sunty Hyde County
4. 5. 6. T7. T7. 9. 10.	Albemarle City Swain County Hendersonville City Currituck County Transylvania County Dare County Macon County Lincoln County	4 5 6 7 8 9 10 11 T12 T12	Roanoke Rapids City Albemarle City Columbus County Alleghany County Edgecombe County Stanly County Goldsboro City Clinton City Sampson Sunty Hyde County Gates County
4. 5. 6. T7. T7. 9. 10. 11.	Albemarle City Swain County Hendersonville City Currituck County Transylvania County Dare County Macon County Lincoln County Eden City	4 5 6 7 8 9 10 11 T12 T12 14	Roanoke Rapids City Albemarle City Columbus County Alleghany County Edgecombe County Stanly County Goldsboro City Clinton City Sampson Sunty Hyde County Gates County Beaufort County
4. 5. 6. T7. T7. 9. 10. 11. 12.	Albemarle City Swain County Hendersonville City Currituck County Transylvania County Dare County Macon County Lincoln County Eden City Surry County	4 5 6 7 8 9 10 11 T12 T12	Roanoke Rapids City Albemarle City Columbus County Alleghany County Edgecombe County Stanly County Goldsboro City Clinton City Sampson Sunty Hyde County Gates County
4. 5. 6. T7. T7. 9. 10. 11. 12. 13.	Albemarle City Swain County Hendersonville City Currituck County Transylvania County Dare County Macon County Lincoln County Eden City Surry County Alleghany County Hickory City	4 5 6 7 8 9 10 11 T12 T12 14 15	Roanoke Rapids City Albemarle City Columbus County Alleghany County Edgecombe County Stanly County Goldsboro City Clinton City Sampson Sunty Hyde County Gates County Beaufort County Onslow County
4. 5. 6. T7. T7. 9. 10. 11. 12. 13.	Albemarle City Swain County Hendersonville City Currituck County Transylvania County Dare County Macon County Lincoln County Eden City Surry County Alleghany County	4 5 6 7 8 9 10 11 T12 T12 14 15	Roanoke Rapids City Albemarle City Columbus County Alleghany County Edgecombe County Stanly County Goldsboro City Clinton City Sampson Sunty Hyde County Gates County Beaufort County



Section V

Results for Public School Systems



Average Performance on 1989-90 End-of-Course Tests by School System

NORTHEAST REGION	·····Alget	ors h	Geoi	metry·····	······Aige	brs th	······Biol	ogy	·····Cher	nistry	•	sics	Engli			listory
	Average	Percent	Average Core	Percent Correct	Average Core	Percent Correct	Average Core	Percent Correct	Average Core	Percent Correct	Average Core	Percent Correct	Average Core	Percent Correct	Averege Core	Percent Correct
School System	Core	Correct	Core	Consci		Consci	0010	00,,000	00,0							
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				# 6 (# (1)	37.5	56.9	38.7	84.6	32.7	84.8	85.8	. 55.B	40.3	87,1
Beautort County	35.1	3	36.5	60.8	34.9	62:3	rece nt t fine en			.,						
Washington City	41.2	69.6	35.4	59.0	37.2	66,4	40.3	81.1	36.7	61,1	34,3	57.2	61.3	61.3	42.4	70.6
Bartle County	39.1	65.1	36.2	60.3	28.1	50.2	37.7	57.1	39.1	63.8	26.6	44.4	63.4	· (63.4 §	15.9	59.4
Camden County	44.9	74.9	41.0	68.3	37,0	66.1	40.6	61.5	37.8	63.0	39.6	66.0	68.8	68.8	42.3	70.6
									36.3	63.7		74.1	57.4	57.4	41.0	69.8
Chowan Courty	42.4	71.4	4114	69.0	41.6	74.2	39.2	59.3		्र क्षेत्र (४०)	Sau duša s				200	
Currituck County	46.7	77.9	42.3	70.6	43.3	77.2	42.0	63.7	41.3	68.8	40.5	67.6	68.9	68.9	44.2	73.6
Dare County	49.2	82.0	50.9	\$4.8	44.3	79.1	47.7	72.2	41.6	€0.3	41.1	68.6	. 0.85.6	85.4	40.1	78.8
. ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	41.5	69.1	41.7	69.5	41.0	73.1	38.2	57.8	35.0	58.3	33.5	55.8	59.0	59.0	42.0	70.0
Getea County	41.5			er Vitag		:								60.2	38,2	85.7
Heriford County	33.6	64.4	31.6	\$ 52.6	34.3	61.3	35.7	54.1	34.5	3 3 37.6 3	36.7	12.6121	60.2	0V.Z.	- 186 J Q 4 & 61	· *** • • • • • • • • • • • • • • • • •
Hyde County	40.5	67.6	37.8	63.0	39,6	70.7	34.0	51.6	41.7	69.5	33.9	56.5	59.5	59.5	39.1	65.2
Martin County	35.0	59.8	35.8	59.7	37.2	56.5	38.4	50.2	38,4	64.1	34.6	57.7	61.9	61.9	40.9	68.2
., 7	e reger					64.0	42.3	64.1	37.1	61.8	43.9	73.1	66.3	66.3	41.7	69.5
Pasquotank County	41.3	68.9	35.7	59.5	36.0	64.3	42.3			3.2						
Perquimens County	42.0	70.1	39.7	a 65.1	43.8	74.2	42.4%	84.2	42.0	75.3		63.8	70.1	70,1	434	72,3
Pitt County	43.0	71.6	39.0	64.9	41.3	73.7	41.1	62.3	39.6	66.0	40.2	67.1	62.1	62.1	43.7	72.8
	47,6	79.3	44.9	74.5	37,5	66.9	3#,6	58.5	38.5	64.2	29.9	49.9	65.8	65.4	40.2	67.0
Tyrrell County											42.3	70.4	64.4	64.4	38.9	64.8
Washington County	37.1	61.9	32.8	54.7	34.5	61.6	36.5	55.3	34.9	58.1					. 1	1.88%
Brunwwick County	35.5	59.1	35,4	59,1	34.8	62.1	40.6	61.5	35.0	58,4	37.2	61.9	60,4	60,4	39.	66,4

End-of-course tests vary in length: Algebra I, Geometry, Chemistry, Physics, and U.S. History contain 60 items; Algebra II contains 56 items; Biology, 66 items; and English I, 100 items.



Average Performance on 1989-90 End-of-Course Tests by School System

SOUTHEAST REGION	····· Aigebrs h····		·····Geometry·····		·····Algebrs II·····		······································		·····Chemistry·····		······Physics·····		·····English I·····		······U.S. History·····	
SOUTHERS! REGION	Average	Percent	Average	Percent	egereyA	Percent	Average	Percent	Average	Percent	Average	Percent	Average	Percent	Average	Percent
School System	Core	Correct	Core	Correct	Core	Correct	Core	Correct	Core	Correct	Core	Correct	Core	Correct	Core	Correct
Carteret County	42.7	71.2	40.2	66.9	42.0	74.9	43.9	66.4	39.9	66.4	44.2	73.7	62.4	62.4	43.4	72.3
Cartered County		, ,	70.5	ar en en en en en en en en en en en en en												
Craven County	41.2	68.7	38.7	64.5	39,2	69.9	39.1	59,3	40,0.	. 66.7	39.4	65.7	85,4	65.4	43.5	72.4
Duplin County	39.3	65.5	35.4	59.1	35.3	63.1	39.1	59.3	36.9	61.4	38.0	63.4	64.3	64.3	41.8	69.6
Greene County	40.4	67.4	40,3	67.2	41.7	74,5	40.2	80.8	41,2	68.7	37.9	63.1	57,8	57.4	40.	67.9
Jones County	37.3	62.1	35.3	58.8	34.6	61.9	40.9	62.0	34.9	58.2	36.4	60.7	56.7	56.7	40.2	67.0
Landr County	40.2	67.0	37.6	62.6	33.9	60.6	38.4	58.2	39.5	65. ∂	43.3	72,4	52.¥	. 62.	40,6	\$7.5
Kinstor ***	42.7	71.1	37.8	63.0	41.5	74.1	38.6	58.5	38.6	64.4	37.9	63.1	60.4	60.4	39.8	66.4
New Henover County	37.3	62.1	35.3	65,5	39,1	69.9	40.4	81.2	39.0	65,0	35.2	63.7	68.3	64.\$	46.0	76.8
Onelow County	42.0	69.9	36.6	61.0	33.6	60.1	40.1	60.7	39.1	65.2	36.7	61.1	64.3	64.3	41.9	69.6
Pantico County	42.1	70.2	% 40. 3	· : .67.2	39.1	69.9	44.7	67,7	35,8	59.7	39.0	65.0	62.1	\$2.1	38.4	€\$4.0
Pender County	36.5	60.8	35.4	58.9	34.4	61.4	37.5	56.8	36.7	61.1	33.9	56.6	63.4	63.4	41.0	68.4
Sampson County	37.3	59 52.2	34.5	, 4, 57.5	33.7	60.1	39.8	:5, 50.5	: 46,4	60.7	42.2	70.4	AM 8110	roi 61.0 i	43.2	72.0
Cilnton City	35.5	59.1	35.1	56.5	41.0	73.1	34.0	52.7	36.1	60.2	30.9	51.5	60.9	60.9	42.4	70.7
Wayne County	0.48	63.4	36.7	61.2	35.0	62.8	4D.5	61.3	35.2	58.7	38.7	64.8	· · · 61.2	63.2	342.2	70.3
Goldsboro City	37.5	62.5	33.8	56.3	33.0	58.9	36.9	56.0	32.1	53.5	37.2	62.1	58.1	58.1	39.5	65.8

End-of-course tests vary in length: Algebra I, Geometry, Chemistry, Physics, and U.S. History contain 60 items; Algebra II contains 56 items; Biology, 66 items; and English I, 100 items.





Average Performance on 1989-90 End-of-Course Tests by School System

CENTRAL REGION	······Alget	ora IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	······Geo Averege	matry Percent	····-Alge	bra Il Percent	······Blo Average	logy Percent	Cher Averege	mistry Percent	Average	elce Percent	Engl	ish l Percent	U.S. F Average	History Percent
School System	Core	Correct	Core	Correct	Core	Correct	Core	Correct	Core	Correct	Core	Correct	Core	Correct	Core	Correct
Durbarn Pounty	41.7	69.4	41,3	6.65	40.3	71.6	43.7	68.3	42.2	and the second	40.8		67.8	67.8	44.0	32334. 37. 5. 5
Durham City	33.1	55.2	29.0	48.4	25.4	45.4	33.6	50.8	28.8	48.0	31.7	52.8	54.1	54.1	36.2	60.4
Edgecombe Courty	35.8	52,8	37.1	\$2.2	31.8	56.8	38.7	59.7	37.8	#3. 0	33.4	58.4	60.0	.0.0	19.4	65.8
Tarboro City	43.7	72.8	36.0	59.9	36.1	64.5	39.1	59.3	35.5	59.1	36.9	61.5	67.1	67.1	39.4	65.6
Franklin County	43.4	72.4	37.9	43.2	36.1	64.4	38.7	58.7	38.1	63.5	38.9	59.9	84.0	64.0	41.0	66.3
Franklinton City	34.5	57.5	41.4	68.9	30.0	53.6	38.3	58.1	41.5	69.2	40.3	67.2	59.3	59.3	40.8	63.0
Granyllia County	34.0	63.3	35.0	59.9	36.0	8424	37.3	56.5	47.3	62.1	39.1	\$3.5	82.5	62.3	41.4	0.0
Hailfax County	32.5	54.2	28.1	46.9	25.5	47.5	31.7	48.0	34.6	57.6	28.6	47.6	52.1	52.1	35.5	59.1
Rosnolis Rapids City	40.5	67.4	42.7	71.1	36.8	×65.3	245.\$	69.0	43.6	72.6	40.4	67.4	9 7 2.5	72.5	44.0	75,3
Weldon City	32.2	53.6	28.4	47.4	26.2	46.8	30.6	46.3	27.3	45.4	24.0	39.9	45.1	45.1	29.5	49.2
Johnston County	41.4	69.0	38.6	84.1	39.2	70.0	42.0	961.8	39.5	86.1	36.3	80.5	84.1	64.1	41.0	(1).1
Nash County	40.7	67.8	39.6	66.1	38.5	68.8	38.6	58.5	38.7	64.5	42.8	71.4	62.6	62.6	42.4	70.6
Rocky Mount City	+3.3	72.1	31,0	84.8	41.4	73.9	39.0	.~\$ 9.1 .	42.5	70.	42.0	70,1	50.4	54,4	40.6	67.7
Northampton County	38.4	63.9	30.1	50.2	29.6	52.9	36.5	55.3	32.8	54.6	34.1	56.8	56.3	56.3	36.4	64.0
Vance County	38.6	64,4	34.0	56.6	33.7	60.2	35,6	53.9	34,9	58.1	38.0	63.3	56.#	56.8	41.0	**.5
Wake County	46.4	77.3	43.6	72.6	41.8	74.7	45.2	68.5	42.9	71.4	42.0	70.0	70.6	70.6	46.7	77.8
Warren County	37.2	62.1	30.6	55,9	30.0	53.6	39.5	59.9	34.7	57.9	, § * , •	A A	₽- 56,9	56,9	41,0	69,9
Wilson County	44.3	73.8	39.8	66.3	39.1	69.8	40.7	61.7	42.2	70.3	41.7	69.5	63.6	63.6	42.6	71.1

End-of-course tests vary in length: Algebra I, Geometry, Chemistry, Physics, and U.S. History contain 60 items; Algebra II contains 56 items; Biology, 66 items; and English I, 100 items. **Only 1 student took the Physics Test in Warren County.



Average Parformance on 1989-90 End-of-Course Tests by School System

SOUTH CENTRAL REGA	na Asan	Na L		metry	Alpe	bra il	Blo	ogy	Chen	nietry	·····Phy	elce	·····Engl	ish i		Hetory
SOUTHER HIRAL MEGA	Averses	Percent	A 1808	Percent	Average	Percent	Average	Percent	Average	Percent	Average	Percent	Average	Percent	Average	Percent
Sempe System	Core	Correct	Core	Correct	Core	Correct	Com	Correct	Core	Correct	Core	Correct	Core	Correct	Core	Correct
Station County	37.1	61.6	39.1	65.2	32.5	58.1	37.3	55.5	33.7	56.1	34.2	57.0	0.5	60.5	37:4	62.4
Columbus Cravity	39.4	65.7	36.3	60.5	35.4	64.9	36.1	54.6	36.7	61.2	• •	• •	56.7	56.7	40.2	67.0
whiteville City	36.8	61.4	37.0	61.6	35.2	62.6	41.0	62.1	18.7	04.4	35.2	58.6	73.0	73.0	43.6	73.0
Cumburtand County	38 5	64 1	35 7	59 5	36.1	64.5	40.2	61.0	36.5	60.9	37.5	62.5	64.0	64.0	40.7	67.8
Harrott County	40,4	67.4	36.8	61.3	37.9	67.6	38.0	59.1	38.1	60.2	34.8	58,0	84.4	64.4	41.2	68.7
Haba CauMy	30 9	64.9	38.0	43 3	30 7	69.1	37.9	57.4	39.0	65.0	38.6	64.3	62.9	52.9	38.7	64.5
Los Descrit	39.1	45.2	37.\$	62.6	37.0	\$7.4	38.4	50.2	37.6	62.7	40.8	68.0	62.2	62.2	42.6	71.3
Managemeny County	37 9	63 2	34 7	57 8	36 9	65.0	38.4	58.1	36.●	61.3	34.0	56.7	66.2	, 66.2	46.3	77.2
Mass County	30.5	45.4	34.5	60.8	38.2	68.2	37.4	50.5	39.2	85.4	37.6	62.6	61.6	61.6	42,5	70.8
Bernand Court	37 3	62 2	34 3	57 1	33 2	5 9 2	39.3	59.8	33.2	55.4	33.6	56.0	60.1	60,1	43.2	71.9
Automor Courty	30.6	61.0	35.4	\$8.7	31.3	55.0	35.4	63.6	34.8	58.0	33.4	55.6	57.0	57.0	\$8.2	63.6
traine (not)	38 5	64 1	36 5	60 9	34 1	60 \$	36.5	\$5.9	40.7	67.0	35.6	59.7	59.7	59.7	43.8	72.9

いっし viviliae wit Allian Contains 56 items, Biology, 66 items, and English I, 100 items of the contains 56 items, Biology, 66 items, and English I, 100 items of the contains 56 items, Biology, 66 items, and English I, 100 items of the contains 56 items, Biology, 66 items, and English I, 100 items





Average Performance on 1989-90 End-of-Course Tests by School System

NORTH CENTRAL REGIO	NAlgeb Average	ra h Percent	······Geon	netry Percent	·····Alge Averege	bra II Percent	······Biol	ogy Percent	·····Cherr	nistry Percent	Ptry	elos Percent	Englis	sh I Percent	·····U.S. h Average	Hetory Percent
School System	Cote	Correct	Core	Correct	Core	Correct	Core	Correct	Core	Correct	Core	Correct	Core	Correct	Core	Correct
Alemence County	40.4	67.3	34.8	64.3	35,3	63.0	34.4	60,3	39,7	86.1	37.0	83 .1	\$5.4	65.A	42.1	70.2
Burlington City Caswell County	42.0 34.7	69.9 57.8	41.5 35.5	69.1 59.2	40.5	72.5 54.1	43.9 37.1	66.5 56.4	40.3	67.1 58.7	40.9 36.2	68.1 80.3	72.6 8 6.8	72.0 54.8	44.4	74.0 56. 7
Chatham County	40.3	67.1	39.7	66.2	42.4	75.6	40.8	61.8	39.6 35.2	65.9	39.3	65.4 86. 1	64.1 65.0	a*.,	43.6 42.8	72.7 70.8
Davidson County Lexington City	39.0 35.7	59.4	34.2	61.3 57.0	27.7	49.4	37.0	56.1	35.1	58.5	32.5	54.2	65.5	38.5	40.6	67.6
Thomasville City Forsyth County	43.6 42.8	72.6 71.3	37.7 39.5	42.8 65.9	40.5	60.6 72.3	38.1°	57.8 52.1	40.8 39.8	66.4	39.7	66.2	66,6	66.8	41.8	69.6
Quillerd County	43.2	71.9	40,2	\$ 7,u	39.8	71.1	42.2	53.9 62.2	39.3	64.0	37.7	64.6	66.9	66.9	4\$. \$	70.9
Greensboro City High Point Cay	40.1	66.9 88.7	38.4	64.0 64.4	37.5	69.6	40.6	81.5	41.4	69.0	41.4	68,9	65,4	65.4	42.9	71.5
Orange County Chapel Hill City	39.7 80.6	66.1	34.6 47.6	57.7 79.3	31.8 48.6	56.9 66.#	40.7	61.6 74.0	37.3 742.2	62.1 70.4	32.4 45.6	53.9 7 6. 0	74.0	74.0	43.0	71.7
Person County	42.3	70.5 70.1	38.8	64.7	36.7 37.4	69.1	42.7 40.1	64.8	40.7 36.0	67.9 60.1	33.6 38.1	56.0 65.1	65.0	65.0 66.1	42.5 44.2	70.8
Randolph County Asheboro City	42.0	70.0	39.5	65.9	37.3	66.6	43.7	66.2	39.4	65.7	45.1	75.2	68.5	68.5	43.4	72.3
Rockingham County Eden City	39.5	67.0	38. 6 39.6	65.9	37.5 40.8	72.8	42.0 39.4	59.8	35.4	63.3 56.9	34.9	58.2	63.9	62.9 63.9	39.5	66.6
West, Rockingham	39.7	66.2 63.9	36.7 37.1	61.9	36.5 33.7	65.2 60.2	41,3 37.6	56.9	35,7 34.2	59.5 56.9	35.8	59.7	55.4	55.4	42.4 39.8	70.6 66.4
	38,6		37.5	62.5	35.5	63.6	37.5	56.8	35.6	€1,0	37.2		61.5	61.5	40,1	86,8

End-of-course tests vary in length: Algebra I, Geometry, Chemistry, Physics, and U.S. History contain 60 items; Algebra II contains 56 items; Biology, 66 items; and English I, 100 items.



Percent

Correct

······Biology-----

Average

Соге

----Algebra II-----

Average

Core

Percent

Correct

·····Geometry·····

Percent

Correct

Average.

Core

----Algebra I----

Percent

Correct

Average

Core

SOUTHWEST REGION

School System

······ Chemisitry ······

Percent

Correct

Average

Core

																	any in the
	Anson County	38.1	63.5	32.8	\$4.7	27.7	49.4	33.4	81.3	31.5	52.5	37.6	62.7	61.8	61.6	36.4	60.7
	Cabarrus County	42.0	70.0	41.0	68.3	39.6	70.7	43.8	66.3	38.8	64.6	42.0	69.9	68.9	68.9	44.4	74.0
	Kannapolla City	33.6	55.0	33.2	55.4	32.4	57.9	34.5	58.4	49.1	65.2	37.6	62.7	61.9	· 61.9	40.2	67.0
	Claveland County	38.1	63.5	37.2	62.1	37.3	66.6	38.7	58.6	36.3	60.5	38.7	64.5	60.0	60.0	40.3	67.2
	Kinga Mountain City	39.4	##.3	30.0	63.4	38.3	70.1	38.2	57.0	39.5	65.4	42.0	71.5	62.3	62.3	39.6	66,0
	Shelby City	39.7	66.2	36.1	60.2	33.6	60.0	40.3	61.1	36.6	61.0	39.7	66.1	67.9	67.9	41.7	69.6
	Gaitan Courty	34.4	84.0	35.9	59.4	33.9	60,5	37.7	57.1	45.3	58.6	34.5	\$7.2	61.7	61.7	40.1	< 68.€
	Lincoln County	36.8	61.3	34.1	56.9	38.3	68.5	38.3	58.1	37.3	62.1	40.8	67.9	63.6	63.8	41.3	68.8
₹	Macklenbury County	40.1	60.2	S 39.2	45.3	37.9	67.7	40.5	81.4	38.7	- 64.5	34.2	64.7	63.2	65.2	41.5	** 6 \$.2
•	Rowan County	40.7	67.8	37.4	62.4	34.7	61.9	40.8	61.6	36.9	61.5	35.7	59.5	62.3	62.3	42.1	70.2
	Stanly County	esservens (en ess	66.6	35.0	58.4	35.9	64.1	41.2	62.4	40.5	67.6	35.0	60.1	. 83.#	65.6	43.3	72.2
	Albemarie City	43.2	72.0	42.3	70.5	41.9	74.9	43.2	65.4	40.4	67.3	43.0	71.7	68.5	68.5	ι 2.2	70.3
	· .	42.4	70.7	39.8	86.4	39.5	70.6	42.6	84.5	42.3	70.5	40.5	67.5	67.1	67.1	44.4	74.0
	Monroe City	37.6	62.6	37.2	61.9	31.2	55.7	38.1	57.8	36.0	60.0	34.6	57.7	67.2	67.2	42.0	70.0

End-of-course tests vary in length: Algebra I, Geometry, Chemistry, Physics, and U.S. History contain 60 items; Algebra II contains 56 items; Biology, 66 items; and English I, 100 items

83

3".

---- U.S. History ----

Average

Core

Percent

Correct

·····English !····

Average

Core

Percent

Correct

.....Physics.....

Percent

Correct

Average

Core

Average Performance on 1989-90 End-of-Course Tests by School System

			0		\$1 0 0	obra II	Bh	logy	Chen	nistry·····	Phy	/sics	·Engli	sh l··· ··	U.S. H	l is tory
NORTHWEST REGION	Average	Percent	Average	metry Percent	Average	Percent	egenevA	Percent	Average	Percent	Average	Percent	Average	Percent	Average	Percent
School System	Core	Correct	Core	Correct	Core	Correct	Core	Correct	Core	Correct	Core	Correct	Core	Correct	Core	Correct
•							www.company.ba	. A Madeil Park 1	n kanaga da ka	party in	i National Aria			38880000	30.48038888	
		936. William		da K	35.4	64.9		59.7		52.4	35.0	59.8	64.3	64.3	41.0	58,3
Alexander County	37.6	62.7	34.9	58.1	39.4			SANSON SANSON			.,				40.4	74.0
Alleghany County	38.4	64.0	36.0	60.0	36.6	65.3	41.3	62.5	42.0	70.0	34.4	57.4	66.8	66.4	43.1	71.8
			44.4	74.0	36.0	67.8	41.3	8,18	41.4		40.5	67.4	88.4	65.4	43.9	73.1
Ashe County	43.8	72.8	\$ \$ \$ \$ \$ \$ \$ \$	**** * * * * V	30.0	· (0 4 x m)	TO DO THE MANAGES	**************************************	200 4.4.2.							
Avery County	43.6	72.7	35.7	59.5	33.2	59.2	37.0	56.1	38.1	63.5	37.1	61.B	65.5	65.5	41.5	69.2
				43.8	37.8	67.3	40.9	62.0	41.0	68.4	4124	69.0	65.2	65.2	42.3	70.5
Burke County	40.4	68. 0	30,3	(§10) ♥ → 1 0 .	41.40	₩ # ₩ ₩	260 1 7 8 6 4 1 5	•			•					70.4
Caldwell County	39.3	65.5	39.2	65.4	37.7	67.2	42.2	63.9	40.5	67.6	37.7	62.9	63.5	63.5	42.0	70.1
					36,6	66.9	40.8	61.7	39.2	#5.3	38.2	¢3.7	\$5.0	65.4	42.0	71.5
Catawha County	44.5	74.2		73.1	34.4	0075	**************************************			•					40.0	78 8
Hickory City	42.6	71.5	42.2	79.3	39.1	69.9	46.3	70.2	41.0	68.3	39.1	65.1	72.9	72.9	45.9 >	76.5
					19.7	71.0	40.7	61.7	41.0	66.3	41.7	69.5	86.1	66.1	41.7	69.5
H. won City	42.6	74.0	38.5	\$50. 44.1	4917	,,,,		. •4••							42.5	5 24
Davie County	40.9	66.2	41.4	69.0	37.5	67.0	44.5	67.4	44.4 23 49/2013	74.0	43.4	72.3	66.2	66.2	45.7	78.1
				∷ ⊜⊹ 62.9	33,5	59,8	38.4	58.2	36.1	60.2	38.0	60.0	84.9	61.9	41.0	68.3
Iredell County	34.8	84.9	3000 373 •	878. GR19	3415	0015 ;									40.0	71.0
Mooresville City	40.5	67.5	46.9	78.1	31.7	56.6	43.8	66.4	44.7	74.5	46.0	76.7	71.0	71.0	42.6	71.0
				80.7	35.6	63.5	39.0	59.1	38.7	61,2	31.3	52,2	62.6	62.6	40.3	67.2
Statesville City	39.9	66.6	3674	32 50.7	99.4	~~~ .	# 146 # # *								40.0	72.0
Surry County	41.9	69.6	39.5	65.8	39.8	71.0	42.5	64.4	37.5	62.5	35.9	59.9	64.8	64.8	43.2	72.0
		(39,5	65.9	40.9	73.1	45,2	69.5	44,8	74.6	42.7	71.1	75.9	75.9	45.2	75.4
EIRM CRY	4#,9	74.9	* 38.3	9314	40.4	, , , , ,									40.5	70.9
Mount Airy City	40.9	68.2	40.6	67.6	39.1	69.8	44.4	67.2	40.6	67.7	38.4	64.1	69.3	69.3	42.5	70. 9
				. 70,0	44.7	79.8	44.5	58.0	43.4	72.3	44.6	74,4	54,5	64.5	44.8	74,3
Watauga County	46.8	78.0	42.0	70,0	77.1				•						40.0	71.7
Wilkes County	38.4	64.1	33.8	56.3	32.4	57.0	39.9	60.5	38.9	64.8	35.4	59.1	61.4	61.4	43.0	
			20.5	54.1	35.9	64.2	39.9		34,9	58.2	34.0		63.4	63.4	43.2	72.0
Yadkin County	36.3	60,5	38.4	54.1	្រុង								d English I. 10	ι items		

End-of-course tests vary in length: Algebra I, Geometry, Chemistry, Physics, and U.S. History contain 60 items; Algebra II contains 56 items; Biology, 66 items; and English I, 100 items.



			0		Alma	bra II	Bio	logy	Cher	m letry	Ptn	elce	·····Engl	sh l	++++U,S, †	·letory
WESTERN REGION	Alge	Percent	Average	metry Percent	Average	Percent	Average	Percent	Average	Percent	Average	Percent	Average	Percent	Average	Percent
O-b-at Overland	Average Core	Correct	Core	Correct	Core	Correct	Core	Correct	Core	Correct	Core	Correct	Core	Correct	Core	Correct
School System	0010	5511551	•••													k
				3.42									1 Av X/5 (3.26)X	882 Ob. 1840	Marie de la companya de la companya de la companya de la companya de la companya de la companya de la companya	
Buncombe County	43.2	71.	41.0	41.4	30.2	69.9	41.7	63.2	39.6	56.0	36,4	80.8	64.0	64.0	9.2.3	70.3
in the comment of the comment										64.6	40.8	67.9	65.9	65.9	41.6	69.4
Acheville City	41.2	68.6	39.7	66.2	38.6	68.9	39.4	59.6	38.0	04.0 38.86 488						
			39.6	86.0	39.7	70.0	42.1	61.7	49.8	#5. 0	38.8	64.7	69.9	89.1	43.9	73.2
Cherokee County	44.1	73.4		**************************************	* ** ; 	, i ner e e r 🕶 A 🕶 ep	CONTRACTOR	,								
Clay County	40.	68.1	36.9	61.6	35.6	63.6	41.0	62.1	37.5	62.5	43.4	72.3	65.3	65.3	43.6	72.6
Olay Godiny								90. i.				54.7	64.8	64.8		89.1
Graham County	38.1	81.5	30.0	40.0	37.9	67.6	35.4	54,3	34.0	87.7	35,2	eriogr adia	and the second	orbiba na na m	State ta Change v St. 4000 €.	**************************************
			 .		33.3	59.4	39.8	60.3	38.6	64.7	38.6	64.3	65.3	65.3	43.7	72.8
Haywood County	42.1	70.1	37.7	62.9	33.3											
Heriderson County	48.0	71.0	41.8	59.9	39.0	70.6	41.8	0.0	41.0		43.0	71.0	65.5	65.4	44.2	73.7
(carried and)		Sisting the face of the	a ast musical	erger i men	,						44.5		71.7	71.7	44.3	73.8
Handersonville City	42.4	70.6	42.0	69.9	40.8	72.9	45.2	68.4	39.7	66.2	41.0	68.3				Section 1
					47.0	66.1	8 00 4 4 16	49 4	41.1	66.4	36.3	80.4	65.5	65.5	43.0	72.7
Jackson Obunty	41.7	().5	41,2		erigina K • W ·		(1.00 A 1940)	; **: . V***	7,444			y 1635 55 12		•		
Macon County	40.9	66.1	43.4	72.3	37.2	66.5	44.0	66.6	38.8	64.7	35.5	59.2	65.9	65.9	44.5	74.1
Macon County														58.0	43.9	73.2
Madison County	40,3	87.1	38.1	63.8	39.3	70.2	39.1	59.3	43.0	· \$5.0	40.4	67.9	38.0	(i);	, v. 10, 10 (10)	7.24.2.04.4
				1	38.0	67.9	38.6	58.4	40.0	66.7	35.6	59.3	61.2	61.2	40.4	67.4
McDowell County	37.7	62.9	34. 0 Sanda (1980)	58.1	36.0											
	38.1	#3.5	37.0	61.6	33.8	60.5	38.7	58.	42.3	70.5	45.2	71.9	68.9	64.9	42.9	71,5
Mitchell County		Section 1	no observa	nge of Fig.										67.8	39.0	65.1
Polk County	38.9	64.8	39.8	66.4	31,1	55.5	41.8	63.3	33.8	56.3	32.0	53.3	67.8	0/.0	39.0	95.1
	garan. Aristo de la decembra					70.5	42,3	10.64,2	42.3	70.4	44.2	73.6	84.1	64.1	40.8	60.0
Autherford County	41.4	69.0	38.0	53.3	39.5	7013	7474	44,4	7 R.) W	, ,,,	, , , ,	,				
	38.0	63.4	35.6	59.3	34.6	61.8	41.0	62.1	37.7	62.8	39.7	66.2	64.3	64.3	42.6	71.0
Swain County	30.0	9 1 2				•						د هما			44.4	71.0
Transylvania County	39.5	65.9	40.5	87.4	38.8	69.2	10.42.#	64.9	43.2	72.1	35,2	58.7	\$4.8	54,8	43.1	DA PAR.
THE THINK THE PERSON OF THE PE							38.4	58.2	38.3	63.8	40.1	66.9	60.0	60.0	ás. 0	66.7
Yancey County	43.2	72.0	42.1	70.2	32.4	57.8	35.4	30,2	39,1	00.0	70.1					

End-of-course tests vary In length: Algebra I, Geometry, Chemistry, Physics, and U.S. History contain 60 items; Algebra II contains 56 items; Biology, 66 Items; and English 1, 100 Items.



HI

School System Besufort County Washington City Bertle County	Number Testad 202 194	Percent 8th Grade 1988-89 60,8%	Percent 9th Grade 1989-90	Number Tested	Percent 8th Grade 1987-88	Percent 10th Grade 1989-90	Number Tested	Percent 8th Grade 1986-87	Percent 11th Grade 1989-90	Humber Tested	Percent 8th Grade 1986-87	Percent 11th Grade 1989-90
Besufert County Weshington City Bertle County	Testad	1988-89	1989-90	Tested	1987-88	1989-90						
Washington City Bertle County		60.8%	64.1%	4 mH								
Washington City Bertle County				125	28.8%	40.2%	113	34.1%	43.6%	241	72 8%	: No. 12.1%
Bertle Courty		64.0%	60.6%	159	57.0%	58.0%	122	42.8%	52.1%	253	88.8%	108.1%
	155	80.0%	42.2%	177	49.0%	·· ·· 51.0%	45	21.1%	27.4%	234	£3.5%	104.6%
Camden County	64	79.0%	71.1%	37	49.3%	46.8%	43	51.2%	57.3%	73	96.9%	97.3%
Chowan County	158	78.4%	71.2%	76	39.0%	39.0%	79	43.4%	84,5%	144	* 7 1 ,1%	
Currituck County	104	70.7%	61.2%	78	42.7%	42.9%	59	35.3%	41.5%	148	89.2%	104.9%
Dara County	164	73.6%	67,8%	97	44.2%	43.5%	98	51.3%	62.1%	3 190	99,5%	101.13
Gates County	89	66.4%	66.4%	56	47.9%	52.8%	44	37.0%	43.1%	109	91.6%	108.9%
Hertlard County	183	84.8%	47.0%	145	47.8%	49.3%	111	31.8%	48.9%	274	74.1%	113.2%
Hyde County	34	43.6%	37.4%	34	53.1%	58 6%	21	28.4%	31.3%	75	101.4%	111.0%
Martin County	318	87.6%	76.9%	260	89.0%	66.2%	178	30.2%	47.7%	172	41,9%	99.7%
Pasquotank County	282	73.6%	71.0%	215	84.7%	59.7%	182	47.3%	59.1%	314	81.6%	101.9%
Parquiment County	116	85.3%	85.9%	79	67.5%	65.0%	48	38.8%	44.7%	91	72.8%	60,3%
Pltt County	864	67.3%	60.3%	740	58.5%	€3.2%	476	38.7%	48.5%	989	80.3%	100.7%
Tyrrell County	28	80.0%	48.3%	20	41.7%	40,8%	20	43.1%	86.0%	56	46.2%	112.0%
Washington County	195	87.8%	90.9%	121	57.1%	63.0%	82	33.7%	39.6%	192	79.0%	92.8%
		Biology -			Chemietry			Physics	 ,		English I	
		Percent	Percent		Percent	Percent		Percent 8th Grade	Percent 12th Grade	Number	Percent 8th Grade	Percent 9th Grade
School System	Number Testeci	9th Grade 1987-88	10th Grade 1989-90	Number Tested	8th Grade 1986-87	11th Grade 1989-90	Number Tested	1985-86	1989-90	Tested	1988-89	1989-90
Beautors Dounty (Fig.)	261	82.8%	90.4%	111	33.6%	42.9%	28	8.8%	10.0%	302	#1.0%	95.9%
Washington City	246	88.2%	89.8%	136	47.7%	58.1%	34	12.3%	14.8%	285	94.1%	89.1%
2 (A) 1 (A) (A) (A) (A) (A) (A) (A) (A) (A) (A)	278	78.3%	81.5%	81	21.4%	28.9%	11	3.8%	4.0%	. 233	79,2%	41.8)
Sartie County St. St.	77	102.7%	97.5%	33	39.3%	44.0%	18	20.0%	25.0%	85	104.9%	94.49
Chowan County	204	104.0%	104.6%	71	39.0%	49.0%	•	5.6%	\$.0%	198	99.5%	\$9,27
Currituck County	155	87.1%	87.5%	36	21.6%	25.4%	24	12.6%	15.1%	129	87.8%	75.99
Dare County	170	81.0%	76.2%	96	40.7%	60.5%	22	10.9%	11.0%	216	#6.4%	88.85
Gates County	106	90.6%	100.0%	70	50.8%	68.6%	29	19.0%	24.8%	127	94.8%	94,87
Herriord County	272	80.2%	92.5%	121	34.5%	80.0%	15	4.6%	5.6%	268	85.0%	84.45
Hyde County	48	75.0%	82.8%	21	28.4%	31.3%	•	11.5%	13.8%	75	96.2%	82.49
	364	82.5%	92.6%	100	41.4%	80.4%	69	17.1%	21.8%	339	93.4%	81,39
Martin County	#34		92.2%	144	37.4%	46.8%	14	3.5%	5.0%	361	\$4.3%	90.97
Martin County Resouctants County	332	84.5%	WE.E 79									
Pasquotank County	332 73		60.8%	39	\$1.2%	37,9%		5.8%	7.1%	118	86.8%	
Pasquotank County Parquimana County	73	82.4%	60.8%			\$7,9% 47.6%	222	5.8% 18.1%	7.1% 24.5%	1284	100.1%	89.79
Pasquotank County				39	37.9%	47.6%		18.1%				87,4% 89,7% 83,1% 80,9%



SOUTHEAST REGION		Algebra!			Geometry -			Algebra II -	·-··		US History -	
300(NEX3) REGION		Percent	Percent		Percent	Percent		Percent	Percent		Percent	Percent 11th Grade
School System	Number	8th Grade	9th Grade	Number	8th Grade	10th Grade	Number	8th Grade	11th Grade	Number	8th Grade 1986-87	11th Grade
	Tested	1988-89	1989-90	Tested	1987-88	1989-90	Tested	1986-87	1989-90	Tested	1900-01	1000
Branswick County	521	80.2%	72.6%	339	48.3%	81.4%	209	29.1%	30.4%	511	71.1%	93.9%
Cartaret County	442	74.3%	72 2%	318	55.7%	62.0%	236	39.3%	50.0%	416	74.3%	\$4.5%
Craven County	670	87.4%	60.7%	518	51.8%	55.2%	420	42.3%	51.8%	901	90.6%	94.6%
Duplin County	383	66.6%	62.7%	284	48.2%	50.7%	238	37.3%	43.4%	509	79.8%	92.9%
Greene County	123	47.5%	45 1%	95	44. 8%	49.2%	78	34.4%	45.6%	172	75.8%	100.6%
Jones County	93	66.9%	65.5%	70	68.6%	67.3%	28	23.0%	29.5%	80	65.5%	84,2%
Limit County	554	43.5%	59.6%	257	50.7%	84.4%	232	43.4%	55.1%	425	79.8%	97.8%
Kinston City	264	73.9%	67.5%	179	48.2%	54.7%	139	34.4%	41.6%	225	80.4%	97.3%
New Henever County	1284	96.7%	78.6%	1020	70.0%	74.3%	706	48.1%	88.3%	1250	81.7%	84.0%
Onelow County	946	81.5%	71.9%	653	55.8%	60.0%	569	46.4%	53.8%	1030	84.1%	97.4%
Pamilios County	111	78.2%	47.3%	79	51.6%	56.4%	49	30.4%	34.5%	126	78.5%	88.7%
Pender County	240	67.0%	60.6%	170	50.7%	49.1%	142	34.1%	39.3%	347	83.4%	96.1%
Bampson County	\$54	83.1%	57,2%	252	47.0%	\$1.0%	180	\$8.0%	42.1%	419	88.4%	97.9%
Clinton City	131	67.2%	60.4%	103	45.2%	51.0%	85	40.1%	48.6%	172	81.1%	98.3%
Wayne County	774	72.4%	73.7%	584	58.5%	59.8%	479	48.2%	81.0%	\$12	87.0%	67.0%
Goldsboro City	232	70.1%	67.1%	132	43.0%	46.8%	164	46.7%	56.9%	258	73.5%	89.6%
Goldano G.,					Chemietry			Physics			English I	
		Biology - Percent	Percent		Percent	Percent		Percent	Percent	Number	Percent 8th Grade	Percent 9th Grade
School System	Number	8th Grade	10th Grade	Number Tested	8th Grade 1986-87	11th Grade 1989-90	Number Tested	985-86 1985-86	12th Grade 1989-90	Teeted	1988-89	1969-90
	Tested	1987-88	1969-90	1 00000	1000-07	1000-00		.,				
Brinewick County	802	85.8%	91.4%	244	33.0%	44.9%	73	11.0%	14.5%	567	87.2%	79.0%
Cartaret County	528	92.5%	102.9%	246	41.0%	52.1%	45	7.2%	10.3%	505	84.9%	82.5%
Craven County	703	78.2%	\$3.5%	313	31.5%	38.6%	116	11.0%		905	\$1.0%	#2.0%
Duplin County	524	89.0%	93.6%	237	37.1%	43.2%	50	7.6%	9.5%	495	86.3%	81.2%
Greens County	160	78.8%	82.9%	56	25.5%	23.9%	20	1.4%	12.0%	237	91.5%	00.6%
Jones County	81	89.2%	87.5%	37	30.3%	38.9%	10	7.5%		122	87.8%	85.9%
Lenoir County	468	92.3%	99.2%	213	30.0%	44.7%	18	2.6%		470	88.3%	82.0%
Kinston City	299	80.6%	91.4%	118	29.2%	35.3%	43	11.1%		299	83.8%	76.5%
New Hanover County	2063	143.4%	150.3%	524	53.9%	64.6%	279	17.3%		1350	94.7%	#2.0 9
Gnalow County	1130	96.6%	103.8%	516	42.1%	48.8%	140	11.3%		1132	97.5%	86.09
Panifico County	133	86,9%	95,0%	45	28.0%	31.7%	16	9.5%	12.9%	147	103.5%	89.17
Pender County	347	103.6%	100.3%	133	· •		47	11.2%		312	88.1%	78.89
Sampson County	467	87.1%		162	34.2%	37.9%	18	3.4%	4.2%	509	90.7%	
·	194	85.1%		79	37.3%	45.1%	9	4.5%		177	90.8%	81.69
Clinton City	928	92.7%		529	51.0%	56.3%	125	12.3%	18.1%	1010	95.7%	
Wayne County	269	87.6%		167			13	3.2%	4.2%	277	83.7%	80.19
Goldsboro City	209	G7.076	55.476									



CENTRAL REGION		Algebra I Percent	Percent		Geometry -	Percent		Algebra II ~ Percent	Percent		US History - Percent	Percen
School System	Number Tested	81h Grade 1988-89	9th Grade 1959-90	Number Tested	8th Grade 1987-88	10th Grade 1989-90	Number Tested	8th Grade 1986-87	11th Grade 1989-90	Number Tested	8th Grade 1986-87	111h Grade 1989-94
Durham County	1178	87.2%	78.7%	930	67.6%	69.5%	726	54.2%	63.7%	1081	80.7%	\$4.95
Durham City	427	77.6%	64.2%	258	45.9%	57.1%	203	33.7%	52.9%	340	56.4%	88.57
Edgecomba County	266	73.9%	60.9%	152	37.4%	40.6%	120	30.5%	42.3%	288	73.3%	101.41
Tarboro City	163	75.8%	70.3%	121	47.1%	56.8%	89	40.6%	51.1%	166	75.8%	95.49
Franklin County	212	58.2%	54,9%	155	45.5%	47.0%	124	29.5%	43.2%	329	78.5%	114.69
Franklinton City	73	62.9%	56.2%	37	34.3%	34.6%	38	30.9%	44.7%	94	76.4%	110.65
Granville County	408	80.9%	77.4%	286	\$2.6%	88.8%	165	28.5%	37.0%	434	79.1%	\$7.25
Halifax County	332	68.5%	57.2%	158	30.4%	35.8%	149	28.8%	34.4%	400	71.8%	92.49
Roanoka Rapida City	163	81.8%	81,9%	99	52.1%	49.7%	126	59.0%	84.6%	172	79.3%	86.95
Waldon City	72	65.5%	64.3%	27	28.5%	35.5%	35	42.7%	54.7%	63	76.8%	96.49
Johnston County	800	87.0%	63.7%	534	47.6%	52.7%	423	37.0%	48.1%	924	. 80.8%	100.7
Nash County	596	62.6%	54.9%	422	48.3%	49.5%	374	40.3%	47.2%	739	79.6%	93.31
Rocky Mount City	231	54.7%	57.0%	168	40.8%	43.8%	116	25.6%	34.0%	205	87.2%	91.0
Northampton County	187	86.1%	66.6%	158	52.7%	60.1%	132	41.9%	53.4%	250	79.4%	101.2
Vance County	209	85.0%	56.1%	198	37.1%	41.8%	171	29.5%	38.8%	444	76.8%	100,7
Wake County	3958	01.4%	81.3%	2907	85.2%	68.7%	2755	85.2%	71.1%	2589	84.9%	92.6
Warren County	172	87.7%	57.0%	95	38.4%	43.4%	70	29.3%	37.8%	177	74.1%	95.7
Wilson County	602	87.3%	57.7%	406	46.2%	51.3%	326	34.5%	41.3%	751	79.5%	95.1
Triison County	***				Ot amelatus			Physics			English I	
		Blology	Percent		Chemistry Percent	Percent		Percent	Percent		Percent	Percei
School System	Number	Percetit 6th Grade	10th Grade	Number	81h Grade	1 1h Grade	Number	8th Grade	121h Grade	Humber	6th Grade	9th Grad
School System	Teeted	1987-88	1989-90	Tested	1986-87	1989-90	Teeted	1985-86	1989-90	Tested	1966-06	1969-
Durham County	1327	98.4%	99.1%	621	46.4%	84.5%	265	18.8%	25.8%	1218	90.3%	81.5 1
Durham City	410	73.0%	90.7%	251	41.8%	65.4%	52	8.2%	16.6%	415	75.5%	62.4
Edgecombe County	\$14	77.\$%	84.0%	174	44.3%	81,3%	58	13.0%	18.6%	112	92.2%	76.0
Tarboro City	214	83.3%	100.5%	113	51.6%	64.9%	44	18.9%	25.1%	190	68.4%	81.9
Franklin County	207	85.6%	86.5%	120	28.8%	41,8%	30	8.1%	10.0%	\$25	\$0.1%	#5.0
Franklinton City	99	91.7%	92.5%	21	17.1%	24.7%	9	6.9%	8.7%	101	87.1%	77.7
Granville County	439	96.2%	96.1%	244	42.2%	84.7%	43	#.5%	31.0%	458	90.2%	10.1
Helifex County	124	81.7%	96.1%	127	22.8%	29.3%	43	8.5%	13.1%	433	89.3%	74.7
Roaneke Repids City	173	91.1%	86.9%	94	48.6%	80.0%	17	1.5%	0.0%	185	92.5%	\$3.0
Weldon City	68	66.7%	69.5%	40	48.8%	62.5%	25	24.0%	32.1%	88	80.0%	78.6
Johnston County	1018	90.5%	100.1%	367	\$2.1%	40,0%	149	12.2%	16.3%	1095	\$1.7%	87.2
Nash County	799	91.4%	93.6%	333	35.9%	42.0%	88	9.5%	12.9%	863	90.7%	94.0
	334	80.7%	86.5%	122	26.0%	34.7%	67	14.7%	22.9%	383	91.4%	95.4
Rocky Mount City		82.7%	94.3%	136	43.2%	55.1%	30	9.1%	12.9%	251	84.2%	84.0
Rocky Mount City Northempton County	248			170	29.4%	24.5%	H	11.5%	16.7%	498	90.8%	97.0
Northempton County		#0.5%	90,3%	1/0	A F. 7 /4							
Northampton County Vance County	424	90.9% 92.1%		2488		84.2%	1132	25.2%	29.3%	4168	93.0%	
Northampton County		92.1%	97.0%		50,9%	84.2% 35,1%	1132 1	25.2% 0.4%	29.3% 0.6%	416 8 226 784	93.0% 89.6% 87.7%	85.6 74.8 75.2



SOUTH CENTRAL REGION		71.8-2.2.		·····	Geometry -		************				US History -	Percent
School System	Number Tested	Percent 8th Grade 1988-89	Percent 9th Grade 1989-90	Number Tested	Percent 8th Grade 1987-88	Percent 10th Grade 1989-90	Number Tested	Percent 8th Grade 1986-87	Percent 11th Grade 1989-90	Number Tested	8th Grade 1986-87	11th Grade 1989-90
Bladen County (4.5)	304	72.9%	67.1%	259	55.9%	55.6%	185	37.2%	48.8%	369	74.2%	90.9%
Columbus County	323	51.4%	49.5%	241	38.5%	39.9%	160	24.3%	28.6%	545	82.8%	97.3%
Whiteville City	169	85.4%	77.2%	119	88.9%	84.0%	99	50.5%	61.1%	188	88.7%	101.7%
Cumberland County	2486	80.2%	78.9%	1864	59.5%	56.9%	1457	44.8%	51.1%	2772	85.3%	97.3%
Harnit County	863	62,3%	60.3%	403	43.0%	44.0%	255	28.8%	34.0%	723	#1.6%	M.4%
Hoke County	280	69.8%	66.7%	162	39.7%	45.4%	102	26.9%	35.5%	283	74.7%	98.6%
Lee County	435	78.0%	80.1%	29Y	53,8%	59,3%	203	37.8%	49.3%	406	75.6%	98.5%
Montgomery County	257	78.8%	71.8%	168	52.8%	56.6%	161	45.2%	55.9%	265	74.4%	92.0%
Moore County	472	67.5%	43.7%	306	48.1%	80.6%	229	35.2%	42.0%	505	27.7%	\$2.7%
Richmond County	473	71.9%	71.1%	352	49.2%	54.9%	224	31 2%	44.7%	482	67.0%	96.2%
Robeson County	1057	87.2%	84.8%	751	34.5%	49.1%	509	25.1%	34.9%	131#	88.1%	BC.8%
Scotland County	403	70.6%	60.9%	190	32.5%	39.2%	272	47.2%	67.2%	369	64.1%	91.1%
School System	Number Tested	Biology Percent 8th Grade 1997-88	Fercent 10th Grade 1989-90	Number Tested	Chemistry Percent 8th Grade 1986-87	Percent 11th Grade 1988-90	Number Tested	Physics Percent 8th Grade 1985-86	Percent 12th Grade 1989-90	Number Tested	English I Parcent 8th Grade 1988-89	Percent 9th Grade 1989-90
Biaden County	414	20.4%	88.8%	175	35.2%	43.1%	30	5.9%	7.4%	378	90.6%	83.4%
Columbus County	561	89.6%	92.9%	222	33.7%	39.6%	0	0.0%	0.0%	578	91.9%	88.5%
Whiteville City	165	01.7%	- 05.7%	113	87.7%	69,2%	84	29.4%	36.8%	189	\$5,5%	96.3%
Cumberland County	2834	90.41%	86.6%	1246	38.3%	43.7%	338	9.9%	12.2%	2808	90.6%	89.1%
Harnett County	\$40	30,6%	87.4%	275	21.0%	36.7%	42	4.6%	6.3%	414	90,1%	47.2%
Hoke County	297	72.8%	53.2%	125	33.0%	43.6%	29	7.8%	10.6%	333	83.0%	79.3%
Lee County	475	87.8%	96.7%	157	20.2%	30.1%	43	7.3%	10.2%	523	93.7%	14.9%
Montgomery County	295	92.0%	99.3%	171	48.0%	59.4%	54	16.5%	21.1%	300	92.0%	83.0%
Moore County	612	91.6%	100.5%	286	44.5%	52.8%	84	12.2%	15.3%	817	88,3%	
Richmond County	522	73.0%	81.4%	225	31.3%	44.9%	36	4.9%	7.0%	574	87.2%	
Robeson County	1550	79.4%	89.0%	564	33.0%	45.0%	151	7.2%	11.5%	1524	82.4%	
Scotland County	510	67.2%	105.2%	139	24.1%	34.3%	28	4.5%	6.8%	529	92.6%	79.0%



NORTH CENTRAL REGION		Algebra I -	Percent		Geometry Percent	Percent		Algebra II	Percent		US History -	Percent
School System	Number Tested	85n Grade 1988-89	9th Grade 1989-90	Number Tested	8th Grade 1947-88	10th Grade 1989-90	Number Tested	8th Grade 1988-87	11th Grade 1949-90	Number Tested	8th Grade 1 995-8 7	11th Grade 1989-80
Alamanca County	549	72.1%	64.8%	485	80.2%	. 66.5%	315	40.2%	47.3%	: 477	96.4%	101.7%
Burlington City	401	80.0%	74.8%	304	68.5%	73.1%	232	44.7%	53.2%	427	\$2.3%	87.9%
Capwell County	200	66.1%	84.1%	119	40,2%	41.5%	113	38.7%	47.3%	205	70.2%	16.0%
Chatham County	365	93.4%	85.3%	265	66.9%	69.2%	180	40.0%	49.2%	369	82.0%	100.9%
Davidson County	201	73.6%	89.2%	736	57.6%	61.6%	583	45.1%	81.9%	1040	30.7%	82.6%
Lexington City	200	92.2%	96.2%	130	50.8%	64.0%	75	27.9%	38.6%	184	68.4%	95.3%
Thor: savilie CPy	107	68.6%	50.2%	80	43.2%	48.5%	49	35.2%	124%	147	78.0%	92.6%
Foreyth County	2108	78.9%	70.0%	1488	54.6%	53.0%	1433	52.6%	56.5%	458	18.8%	18.1%
Gullford County	1446	78.4%	70.2%	1220	60.6%	70.6%	933	47,7%	24. 14.1%	7 666 1028	#1.5%	. 66,7%
Greensboro City	1166	81.0%	78.5%	1000	64.3%	87.1%	797	50.5%	81.8%	1143	72.4%	88.6%
High Paint City	445	70.5%	71.5%	250	41.8%	\$1.9%	239	40.1%	11.6%	30.88 44 1	74.4%	· : ##.##
Orange County	270	70.7%	65.2%	247	58.2%	78.7%	185	44.4%	62.1%	303	72.7%	101.7%
Chapet HM City	540	83.8%	33.1%	311	88.8%	77.8%	242	58.6%	64.1%	149	93.1%	104.8%
Person County	310	72.1%	74.0%	227	55.8%	57.9%	148	34.8%	42.8%	328	77.4%	95.1%
The Transfer of the second second	See English		40.5%	428	40.1%	48.1%	291	× 27.4%	\$7.6%	717	72.2%	20 14 1X
Renderen County	188	80.6%	80.2%	174	66.9%	78.1%	135	47.0%	50.7%	205	71.4%	89.1%
Asheboro City	-1, 112	87.4%	280. 84.1%	141	46.2%	aza. \$1.9%	M	37.8%		%518% 197	77.0%	24 . 61.69
Hockingham County	238	78.3%	81.9%	152	47.1%	48.0%	132	44.1%	48.1%	260	87.0%	96.7%
Eden City				133	49.4%	84.7%	104	32.5%	* 44,0%	224	70.0%	101
West. Bookingham	203	74.0%		104	36.7%	40.9%	131	42.8%	85.5%	214	68.9%	90.7%
Reideville City	177	64.4%	82.3%	229	45.3%	50.0%	188	33.1%	42.4%	421	78.3%	04.49
Stokes County	299	86.0%	58,6%	249	43.37	30.0 M	180	401) M	76.7	VA 1	. , , , , ,	****
		Blology			Chemietry		·····	Physics			English I	
		Percent	Percent 10th Grade		Percent	Percent		Percent	Percent		Percent	Percent 9th Grade
School System	Mumber	8th Grade							4 844 67 44 44			
	Tested	1967-86	1988-80	Number Tseted	9th Grade 1996-87	11th Grade 1969-90	Number Tested	8th Grade 1985-86	12th Grade 1969-90	Number Tested	8th Grade 1988-89	
Atomonia Calinty 1 41	Tooted			********					1900-90		1966-89	1000-00 87.29
***************************************		1967-86	1999-80	Toeted	1906-87	1909-90 48.2% 54.4%	Tested	10.5% 22.1%	1960-90	Tooled 739 488	1968-89 97,1% 87,4%	87.25 81.05
Burlington City	Tooled 794	1007-00	1999-90	Treted 321	1995-87	1909-90	Tooled 96	10.5%	1999-90	Tooled 738	1966-89	87,25 81,05 90,75
Burlington City Carriet Deurty	Tested 784 438 274	97.4% 96.2% 93.0%	1999-90 107.5% 104.8%	321 237	1000-07 40.9% 45.7%	1909-90 48.2% 54.4%	Tooled 96 132	10.5% 22.1%	1946-80 12,3% 29.3%	799 488 823 376	1968-89 97,1% 87,4%	1966-91 87,275 81,075 90,775 87,97
Burlington City County Chatham County	794 438 274 372	97.4% 96.2% 93.0%	1999-90 107.5% 104.8%	7900d 321 237 132	1004-87 40.9% 45.7% 45.2%	1909-90 48.2% 54.4% 88.2%	Tested 96 132 33	1985-86 10.5% 22.1% 10.8%	1999-90 12.3% 29.3% 14.5%	799 488 823 376	97.1% 87.4% 87.4%	87.27 81.07 90,77 87.97
Burlington City Council Deurity Chatham County Styldaun Deurity	794 438 274 372 1086	1007-84 97,4% 96.2% 92.6% 93.6% \$2.6%	1998-90 197.5% 104.8% 95.8% 97.1% 98.0%	Total 321 237 132 147	1996-87 40,9% 45,7% 49,2% 32,7%	1989-90 48.2% 54.4% 88.2% 40.2%	Tested 96 132 33 32	10.8% 22.1% 10.8% 6.8%	1966-90 12,3% 29,3% 14,5% 8,8%	759 486 863 376 1118 188	1968-89 67,1% 87,4% 92,2% 96,2%	87.25 91.05 90.75 97.95 87.85
Burlington City County County Chathern County Styldeen County Lexington City	794 438 274 372 1096 205	97.4% 98.2% 98.2% 93.9% 93.9% 82.9%	1998-90 197.5% 104.8% 95.8% 97.1% 98.0% 101.0%	Treted 321 237 132 147 608	1996-87 40.9% 45.7% 49.2% 32.7% 47.2%	1909-90 48.2% 54.4% 88.2% 40.2% 84.1% 39.4%	Tested 96 132 33 32 224	10.8% 22.1% 10.8% 6.8% 18.8%	1900-90 12:3% 29:3% 14:5% 8:8% 22:4%	738 488 803 376	97.1% 97.4% 93.2% 96.2%	87,27 91,07 90,77 87,87 87,87 89,47
Burlington City Conveil County Chathern County Styldeon County Lexington City Thomasyllis City	704 438 274 372 1006 205	97.6% 92.6% 92.9% 93.9% \$2.6% 90.1%	1998-90 197.5% 104.8% 95.6% 87.1% 98.0% 101.0%	Total 321 237 132 147 608 76 88	1006-07 40.9% 45.7% 49.2% 32.7% 47.2% 28.3% 20.8%	1989-90 48.2% 54.4% 88.2% 40.2% 84.1% 39.4%	Tested 96 132 33 32 224 48	1985-66 10,5% 22,1% 10,8% 6,8% 18,8% 17,2%	12.3% 29.3% 14.5% 8.8% 22.4% 25.1% 10.6%	799 488 483 376 1118 188 149 2560	97,1% 67,4% 67,4% 98,2% 98,2% 98,1% 85,7%	87.25 91.05 90.75 87.85 87.85 89.45
Burlington City Council Dearly Chathern County Divideon County Lexington City Thomasville City Foreyth County	Tested 794 438 274 372 1096 205 180 2474	97.4% 97.4% 98.2% 93.9% 93.9% 82.9% 80.1% 91.1% 90.8%	1995-90 197-5% 104-8% 95-5% 87-1% 98-0% 101-0% 90-9%	Trested 321 237 132 147 608 76 86 1078	1986-87 40.9% 45.7% 49.2% 32.7% 47.2% 28.3% 28.8% 39.5%	1909-90 48.2% 54.4% 88.2% 40.2% 84.1% 39.4% 42.4%	Tested 90 132 33 32 224 48 18	1985-66 10.8% 22.1% 10.8% 6.8% 18.8% 17.2% 7.9%	12.3% 29.3% 14.5% 8.8% 22.4% 25.1% 10.6%	799 488 483 376 1118 188 149 2560	97,1% 67,1% 67,4% 98,2% 98,2% 98,2% 85,7%	87,25 81,05 90,75 97,95 87,95 87,95 91,95 91,95
Burlington City County County Chathern County Divideon County Lexington City Thomasville City Foreyth County Quillorit County	Tested 794 438 274 372 1096 205 180 2474	97.4% 98.2% 93.9% 93.9% 93.9% 93.9% 90.1% 90.1% 90.2%	1998-90 197.5% 104.8% 95.5% 97.1% 98.0% 101.0% 90.9% 88.0% 92.8%	Tysted 321 237 132 147 608 76 88 1075	40.9% 45.7% 45.2% 32.7% 47.2% 26.3% 20.8% 39.5% 48.1%	1909-90 48.2% 54.4% 88.2% 40.2% 84.1% 39.4% 42.4% 57.0%	Tested 96 132 33 32 224 48 18	10.8% 22.1% 10.8% 6.8% 16.8% 17.2% 7.8% 14.3% 11.3%	12.3% 29.3% 14.5% 8.8% 22.4% 25.1%	799 488 483 376 1118 188 149 2560	97.1% 97.1% 97.4% 98.2% 99.2% 99.1% 85.7% 98.6%	100-0 87,29 81,09 90,79 87,89 87,89 81,69 85,09
Burlington City County County Chathern County Davidson County Lexington City Thomasvitis City Foreyth County Quiliforst County Greensboro City	Tested 794 438 274 372 1096 205 180 2474 1603	97.4% 98.2% 93.9% 93.9% 93.9% 90.1% 91.1% 90.8% 90.2% 84.0%	1998-90 107.5% 104.8% 95.8% 97.1% 90.9% 90.9% 92.8% 97.7%	Tysted 321 237 132 147 608 76 88 1076 940 766	1004-07 40.9% 45.7% 45.2% 32.7% 47.2% 26.3% 20.8% 39.5% 48.1% 48.5%	1909-90 48.2% 54.4% 88.2% 40.2% 84.1% 39.4% 42.4% 57.0% 59.4%	Tested 96 132 33 32 224 48 18 438 224 288	1985-06 10.8% 22.1% 10.8% 6.8% 16.8% 17.2% 7.8% 14.3% 15.3%	12.3% 29.3% 14.5% 8.8% 22.4% 25.1% 10.6% 17.0% 13.6% 22.7%	759 488 823 376 1118 188 2560 1007 1278	97.1% 97.1% 97.4% 93.2% 99.2% 99.1% 95.7% 98.6% 98.6%	100-0 87,27 91.07 97,97 87,97 87,97 81,67 85,07 91,37
Burlington City County County Chathern County Divideon County Lexington City Thomasville City Foreyth County Quillorif County Greensboro City High Point City	Tested 794 438 274 372 1096 205 180 2474 1603 1306	97.4% 98.2% 93.9% 93.9% 93.9% 80.1% 91.1% 90.8% 90.2% 84.0% 78.2%	1998-90 107.5% 104.8% 95.8% 97.1% 90.9% 90.9% 92.8% 97.7% 97.0%	Tysted 321 237 132 147 608 76 88 1076 940 766 179	1004-07 40.9% 45.7% 49.2% 20.2% 20.9% 20.9% 39.5% 48.1% 48.5% 30.0%	1909-90 48.2% 54.4% 58.2% 40.2% 84.1% 39.4% 42.4% 57.0% 59.4% 40.1%	Tested 90 132 33 32 224 48 18 438 224 288 40	1985-86 10.8% 22.1% 10.8% 6.8% 18.8% 17.2% 7.9% 14.3% 15.4% 8.8%	18:3% 29:3% 14:5% 8:8% 22:4% 25:1% 10:6% 12:6% 22:7% 9:1%	Toeted 779 488 823 376 1118 188 149 2560	97.1% 97.1% 97.4% 98.2% 98.2% 98.1% 85.7% 98.6% 98.6% 98.6%	100-01 87,29 91,09 97,99 87,99 82,69 83,69 83,69 83,69 83,69 81,59
Burlington City Connell County Chatham County Savidation County Laxington City Thomasville City Forsyth County Quiliford County Greensboro City High Point City Orange County	794 438 274 372 1096 205 189 2474 1803 1306 484 302	97.4% 98.2% 93.9% 92.9% 92.9% 90.1% 91.1% 90.2% 90.2% 94.0% 77.2% 72.4%	1998-90 107.9% 104.9% 95.8% 97.1% 98.0% 101.0% 90.9% 92.8% 97.7% 97.0% 98.2%	Tysted 321 237 132 147 608 76 88 1076 940 766 179	40.9% 45.7% 45.2% 32.7% 47.2% 28.3% 28.8% 39.5% 48.1% 48.5% 30.0% 42.7%	1889-90 48.2% 54.4% 58.2% 40.2% 54.1% 39.4% 42.4% 57.0% 59.4% 40.1% 59.7%	Tested 96 132 33 32 224 48 18 438 224 288 40 37	10.5% 22.1% 10.6% 6.8% 18.8% 17.2% 7.9% 14.3% 15.4% 6.8% 9.1%	1900-00 12:3% 29:3% 14:5% 8:8% 22:4% 25:1% 19:6% 13:6% 9:1% 12:4%	759 488 823 376 1118 188 2560 1697 1278 807 323	97,1% 97,4% 98,2% 98,2% 98,1% 98,7% 98,5% 98,6% 92,6% 94,6% 94,6%	100-0 87,27 81.07 90,77 87.97 87.97 81.67 91.67 91.67 91.57 91.57
Burlington City Connell County Chathern County Savidation County Laxington City Thomasville City Foreyth County Guilford County Greensboro City High Point City Orange County Chapat Hill City	Tested 794 438 274 372 1096 205 180 2474 1603 1306 484 302 352	97.4% 90.2% 92.9% 93.9% 92.9% 90.1% 91.1% 90.2% 94.0% 72.2% 72.4% 98.1%	1998-90 107.9% 104.9% 95.8% 97.1% 98.0% 101.0% 90.9% 88.0% 92.8% 97.7% 97.0% 98.2% 87.8%	Tysted 321 237 132 147 608 76 88 1076 940 766 179 178 235	40.9% 45.7% 45.2% 32.7% 47.2% 28.3% 28.8% 39.5% 48.1% 48.5% 56.4%	1909-90 48.2% 54.4% 58.2% 40.2% 84.1% 39.4% 42.4% 57.0% 59.4% 69.2%	Tested \$6 132 33 32 224 48 18 438 224 288 40 37 173	10.5% 22.1% 10.6% 6.8% 18.8% 17.2% 7.6% 14.3% 15.3% 6.8% 9.1%	1900-00 12:3% 29:3% 14:5% 8:8% 22:4% 25:1% 19:6% 12:6% 22:7% 12:4% 47:3%	759 488 823 376 1118 188 2560 1278 507 323 401	97,1% 97,1% 97,2% 98,2% 98,2% 93,1% 95,7% 94,6% 92,8% 94,6% 94,6% 94,6%	100-0 87,27 81.07 90,77 87,87 87,87 81,67 81,67 91,67 91,67 91,67 91,57 91,57 91,57
Burlington City Connell County Chatham County Styldeun County Lexington City Thomasvise City Foreyth County Quitoral County Quitoral County Greens boro City High Point City Orange County Chapat Hill City Person County	Tested 784 438 274 372 1096 205 180 2474 1603 1306 484 302 352 347	97.4% 98.2% 93.9% 93.9% 92.9% 90.1% 91.1% 90.8% 90.2% 94.0% 72.4% 98.1% 98.1%	1998-90 107.8% 104.8% 95.8% 97.1% 98.0% 101.0% 90.9% 88.0% 92.8% 87.7% 97.0% 98.2% 87.8% 88.5%	Total Total	40.9% 45.7% 45.7% 47.2% 28.3% 28.3% 28.8% 39.5% 48.1% 48.5% 50.0% 64.4% 22.8%	1909-90 48.2% 59.4% 59.2% 40.2% 59.4% 59.4% 60.1% 59.7% 69.2% 27.7%	Tested \$6 132 33 32 224 48 18 438 224 288 40 37 173 82	10.5% 22.1% 10.6% 6.8% 18.8% 17.2% 7.6% 14.3% 15.4% 6.8% 9.1% 48.0%	1909-90 12:3% 29:3% 14:5% 8:8% 22:4% 10:6% 17:0% 13:6% 22:7% 8:1% 47:3% 22:4%	739 486 823 376 1118 188 2560 1697 1278 607 323 401 381	97,1% 97,1% 97,4% 98,2% 98,2% 98,1% 85,7% 98,6% 98,6% 98,6% 98,6% 98,6%	100-0 87,29 91,09 90,79 87,89 82,89 85,09 91,39 91,39 78,09 82,89
Burlington City Connell County Chatham County Styldeun County Lexington City Thomasvise City Foreyth County Queliforst County Greensboro City High Point City Orange County Chapat Hill City Person County Randolphi County	794 438 274 372 1096 205 180 2474 1603 1306 484 302 352 347 783	97.4% 98.2% 93.9% 93.9% 93.9% 90.1% 90.2% 90.2% 94.0% 78.2% 72.4% 98.1% 97.4%	1998-90 107.8% 104.8% 95.8% 97.1% 90.9% 90.9% 92.8% 97.7% 97.0% 96.2% 87.8% 88.5%	7 select 321 237 132 147 808 76 88 1076 940 766 179 178 235 96 303	1006-67 40.9% 45.7% 49.2% 32.7% 47.2% 28.3% 39.5% 48.1% 30.0% 58.4% 22.8% 28.6%	1909-90 48.2% 58.2% 40.2% 84.1% 39.4% 42.4% 57.0% 59.4% 40.1% 59.7% 69.2% 27.7% 39.4%	Tested \$6 132 33 32 224 48 18 438 224 288 40 37 173 82 69	10.5% 22.1% 10.8% 6.8% 18.8% 17.2% 7.8% 14.3% 15.4% 6.8% 48.0% 48.0%	1900-00 12:3% 29:3% 14:5% 8:8% 22:4% 10:6% 17:0% 13:6% 47:3% 47:3% 8:1%	739 486 823 376 1118 188 2560 1807 1278 807 323 401 381	97,1% 97,1% 97,2% 98,2% 98,1% 95,7% 98,6% 98,6% 98,6% 98,6% 98,6% 98,6% 98,6% 98,6%	100-0 87,29 91,09 90,79 97,89 87,89 85,09 91,39 91,39 91,39 78,09 90,99 78,39
Burlington City Connell County Chatham County Divideur County Lexington City Thomasvitie City Foreyth County Quittorit County Quittorit County Greensboro City High Point City Orange County Chapat Hill City Person County Randolphi County Asheboro City	Tested 794 438 274 372 1096 205 180 2474 1603 1306 484 302 352 347 793 244	97.4% 98.2% 93.9% 92.9% 93.9% 90.1% 91.1% 90.8% 90.2% 84.0% 78.2% 95.1% 95.1% 95.1%	1998-90 107.8% 104.8% 95.8% 97.1% 90.9% 90.9% 92.8% 97.7% 97.7% 96.2% 87.7% 98.2% 87.8% 88.5%	Total 321 237 132 147 808 76 86 1076 940 766 179 178 235 96 303 131	1006-07 40.9% 45.7% 49.2% 32.7% 47.2% 28.3% 28.8% 30.0% 48.5% 30.0% 42.7% 56.4% 22.6% 45.8%	1909-90 48.2% 54.4% 58.2% 40.2% 84.1% 39.4% 42.4% 57.0% 59.4% 69.2% 69.2% 59.4% 59.7%	Tested 96 132 33 32 224 48 18 436 224 288 40 37 173 82 69 17	10.8% 22.1% 10.8% 6.8% 18.8% 17.2% 7.8% 14.3% 11.3% 6.8% 8.1% 48.0% 6.1%	12.3% 29.3% 14.5% 8.8% 22.4% 25.1% 19.6% 17.0% 13.6% 22.7% 9.1% 47.3% 47.3% 8.3%	799 486 863 376 1118 188 2560 1007 1278 807 323 401 381 873 220	97,1% 97,1% 97,4% 98,2% 98,1% 95,7% 98,6% 98,6% 98,6% 98,6% 98,6% 98,6% 98,6%	100-0 87,29 81,09 90,79 87,89 81,89 61,89 83,89 81,89 78,09 90,99 78,91
Burlington City Connect County Chatham County Davidson County Lexington City Thomasultie City Foreyth County dultforst County Greenaboro City High Point City Orange County Chapet Hill City Person County Randolph County Asheboro City Rockingham County	Tested 438 274 372 1096 205 186 2474 1603 1306 484 302 357 793 244 287	97.4% 98.2% 92.9% 93.9% 92.9% 90.1% 91.1% 90.8% 90.2% 84.0% 72.4% 98.1% 98.1% 98.1%	199-90 107.5% 104.8% 95.5% 97.1% 90.9% 101.0% 90.9% 92.8% 97.7% 97.2% 97.2% 87.2% 88.5% 88.5% 88.5%	Total 321 237 132 147 808 76 86 1076 940 766 179 235 96 303 131 116	1006-07 40.9% 45.7% 49.2% 29.3% 20.3% 20.8% 30.0% 42.7% 50.4% 20.6% 42.6% 45.6% 45.6%	1909-90 48.2% 54.4% 58.2% 40.2% 54.1% 39.4% 42.4% 87.0% 59.4% 69.2% 59.7% 69.2% 59.6%	Tested 86 132 33 32 224 48 18 438 224 288 40 37 173 82 69 17	10.8% 22.1% 10.8% 6.8% 10.8% 10.8% 11.2% 7.8% 14.3% 11.3% 18.4% 8.8% 46.0% 6.1% 8.0%	12.3% 29.3% 14.5% 8.8% 22.4% 25.1% 19.6% 17.0% 9.1% 47.3% 22.7% 8.1% 47.3% 8.9% 7.0%	Toeted 739 486 863 376 1118 188 2560 1007 1278 807 323 401 301 873 220 248	97,1% 97,1% 97,1% 98,2% 98,1% 98,1% 98,5% 98,6% 98,6% 98,6% 98,6% 98,6% 98,6% 98,1% 98,1% 98,1% 98,1%	100-0 87,29 81,09 90,79 87,89 81,89 61,89 83,89 81,89 78,09 90,99 78,91 84,79
Burlington City Chewell County Chatham County Davidson County Lexington City Thomasultie City Foreyth County Oultford County Greensboro City High Point City Orange County Chapet Hill City Person County Randolph County Anhaboro City Rockingham County Eden City	Tested 794 438 274 372 1096 205 186 2474 1603 1306 484 302 352 347 793 244 267 298	97.4% 92.9% 93.9% 92.9% 93.9% 90.1% 91.1% 90.8% 90.2% 84.0% 772.4% 98.1% 98.1% 98.1% 98.1% 98.1% 98.1% 98.1% 98.1%	199-90 197.5% 104.8% 95.5% 97.1% 90.9% 90.9% 92.8% 97.7% 97.2% 98.2% 87.7% 98.2% 87.8% 98.2% 88.5% 98.2% 98.2%	Tysted 321 237 132 147 608 76 86 1076 940 766 179 178 235 96 303 131 116	1006-67 40.9% 45.7% 49.2% 28.3% 28.3% 28.8% 39.5% 48.1% 22.6% 22.6% 45.6% 45.6% 53.8%	1909-90 48.2% 54.4% 88.2% 40.2% 84.1% 39.4% 42.4% 57.0% 59.7% 69.2% 39.4% 59.7% 59.9%	Tested 96 132 33 32 224 48 18 438 224 288 40 37 173 82 69 17	1085-06 10.8% 22.1% 10.8% 6.8% 18.8% 17.2% 7.6% 14.3% 15.4% 6.6% 45.0% 6.1% 8.0% 8.0% 28.6%	12.3% 29.3% 14.5% 9.8% 22.4% 25.1% 19.6% 17.0% 9.1% 47.3% 47.3% 9.8% 9.8% 7.0%	Toeted 739 488 863 376 1118 188 2560 1007 1278 807 323 401 381 873 220 248 277	97.1% 97.1% 97.4% 98.2% 98.1% 85.7% 98.8% 86.6% 88.6% 88.6% 88.6% 88.6% 88.6% 88.6% 88.6% 88.6%	100-0 87,29 81,09 90,79 87,89 87,89 81,89 85,09 91,89 81,89 91,89 92,89 92,89 98,79 87,29
Burlington City Connect County Chatham County Davidson County Lexington City Thomasultie City Foreyth County dultforst County Greenaboro City High Point City Orange County Chapet Hill City Person County Randolph County Asheboro City Rockingham County	Tested 438 274 372 1096 205 186 2474 1603 1306 484 302 357 793 244 287	97.4% 92.5% 93.9% 93.9% 93.9% 90.1% 91.1% 90.8% 90.2% 84.0% 72.4% 98.1% 85.0% 74.7% 93.8% 93.8% 93.8%	199-90 107.5% 104.8% 95.6% 97.1% 90.9% 90.9% 92.8% 97.7% 97.0% 98.2% 87.7% 98.2% 88.5% 88.5% 88.5% 88.5% 88.5%	Tysted 321 237 132 147 608 76 88 1076 940 766 179 178 235 96 303 131 114 161 113	1006-07 40.9% 45.7% 49.2% 28.3% 28.3% 28.8% 39.5% 44.1% 64.4% 22.6% 28.6% 45.6% 45.6% 53.9% 36.4% 36.4%	1909-90 48.2% 54.4% 88.2% 40.2% 84.1% 39.4% 42.4% 57.0% 59.7% 69.2% 59.7% 59.9% 40.1% 59.7%	Tested 96 132 33 32 224 48 18 438 224 288 40 37 173 82 69 17	1085-06 10.8% 22.1% 10.8% 6.8% 18.8% 17.2% 7.8% 14.3% 15.4% 6.8% 48.0% 16.4% 8.1% 8.0% 28.8%	12.3% 29.3% 14.5% 9.8% 22.4% 25.1% 19.6% 17.0% 9.1% 47.3% 47.3% 8.5% 7.0% 37.1%	Toeted 739 488 663 376 1118 188 2560 1007 1278 807 323 401 801 801 801 802 405 220 246 277 822	97.1% 97.1% 97.2% 98.2% 98.1% 98.5% 98.6% 98.6% 98.6% 98.6% 98.6% 98.6% 98.6% 98.6% 98.6% 98.6%	100-0 87,29 81,09 87,89 87,89 81,89 85,09 81,89 81,89 81,89 81,89 82,89 84,79 87,29 85,29
Burlington City Chewell County Chatham County Davidson County Lexington City Thomasultie City Foreyth County Oultford County Greensboro City High Point City Orange County Chapet Hill City Person County Randolph County Anhaboro City Rockingham County Eden City	Tested 794 438 274 372 1096 205 186 2474 1603 1306 484 302 352 347 793 244 267 298	97.4% 92.5% 93.5% 93.5% 93.5% 90.1% 91.1% 90.8% 90.2% 84.0% 72.4% 98.1% 93.5% 93.5% 93.5% 93.5%	199-90 197.5% 104.8% 95.5% 97.1% 90.9% 90.9% 92.8% 97.7% 97.2% 98.2% 87.7% 98.2% 87.8% 98.2% 88.5% 98.2% 98.2%	Tysted 321 237 132 147 608 76 86 1076 940 766 179 178 235 96 303 131 116	1006-67 40.9% 45.7% 49.2% 28.3% 28.3% 28.8% 39.5% 48.1% 22.6% 22.6% 45.6% 45.6% 53.8%	1909-90 48.2% 54.4% 88.2% 40.2% 84.1% 39.4% 42.4% 57.0% 59.7% 69.2% 39.4% 59.7% 59.9%	Tested 96 132 33 32 224 48 18 438 224 288 40 37 173 82 69 17	1085-06 10.8% 22.1% 10.8% 6.8% 18.8% 17.2% 7.6% 14.3% 15.4% 6.6% 45.0% 6.1% 8.0% 8.0% 28.6%	12.3% 29.3% 14.5% 9.8% 22.4% 25.1% 19.6% 17.0% 9.1% 47.3% 47.3% 9.8% 9.8% 7.0%	Toeted 739 488 863 376 1118 188 2560 1007 1278 807 323 401 381 873 220 248 277	97.1% 97.1% 97.4% 98.2% 98.1% 85.7% 98.8% 86.6% 88.6% 88.6% 88.6% 88.6% 88.6% 88.6% 88.6% 88.6%	87,25 91,05 90,75 87,95 87,95 87,85



SOUTHWEST REGION	Number Tested	Algebra 1 - Percent 8th Grade 1368-89	Percent 9th Grade 1969-90	Number Tested	Geometry Percent 8th Grade 1987-88	Percent 10th Grade 1989-90	Humber Tested	Algebra II - Percent 8th Grade 1988-87	Percent 11th Grade 1989-90	Number Tested	US History - Percent 8th Grade 1986-87	Percent 11th Grade 1989-90
Anson Osuniy	27	53.6%	\$5.8%	158	40,8%	42.9%	165	2 41.6%	80.5%			101.9%
Cabarrus County	700	74.8%	73.7%	553	59.5%	65.0%	526	52.6%	86.8%	834	83.7%	105.8%
Karnapelle City	225	00.0%	5559 62.0%	214	85.3%	90.6%	. 201	56.5%	75.0%	257		AS. 9%
Cleveland County	459	67.1%	67.7%	264	42.8%	48.5%	221	33.1%	40.6%	521	78.1%	95.8%
Kinge Mountain City	190	\$4.9%	81.1%	170	83.0%	59.6%	şarı (117)	19.8%	27.1%	244	72.0%	#.#X
Shelby City	175	70.6%	87.0%	154	61.1%	60.6%	141	59.7%	63.5%	197	83.5%	80.7%
Gastert County	1684	43.7%	06.9%	1236	49.6%	84.2%	104	32,4%	42.5%	2028	73.8%	\$4.2%
Lincoln County	479	70.8%	74.1%	419	63.5%	65,3%	290	39.6%	48.3%	556	78.5%	92.8%
Mechienburg County	3054	72.1%	72.0%	3318	\$2.2%	61.6%	2450	42.5%	81.3%	-	77.5%	83.4%
Rowan County	891	70.2%	70.0%	762	63.4%	60.5%	511	43.4%	56.0%	849 Mai ii + 111	72.1%	93.1%
Stanly County	434	10.2%	30.4%	307	59,7%	33.3%	233	45.4%	54.2%	400		· · · · · · · · · · · · · · · · · · ·
Albemario City	163	121.2%	101.7%	104	74.3%	73.8%	69	50.7%	50.7%	132		97.1%
Union County	#14	62.4%	55,3%	470	\$1.9%	55.2%	\$70	37.6%	43,0%	37 2. 792		12.1%
Monroe City	169	74.1%	68.7%	94	44.5%	54.4%	91	35.8%	55.5%	150	59.1%	81.5%
-		Biology Percent	Percent		Chemietry Percent	Percent		Physics Percent	Percent		English I Percent	Percent
School System	Number Tested	8th Grade 1987-88	10th Grade 1999-90	Number Tested	8th Grade 1986-87	11th Grade 1967-90	Number Tested	8th Grade 1965-86	12th Grade 1986-80	Number Tested	8th Grade 1968-89	9th Grade 1989-90
Anson Ownly	353	10.5%	\$5.9%	92	23.5%	28.5%	30	7.7%	10,8%		3	99.1 %
Cabarrus County	776	83.4%	91.2%	390	39.2%	49.4%	110	10.5%	13.2%	1 .1 .1	88.1%	86.8%
Karmapelle City	249	75.2%	92,9%	135	39.0%	\$1.8%	-33	10.2%	12.7%			81,0%
Cleveland County	558	84.3%	91.3%	257	38.5%	47.2%	42	6.3%	9.1%			96.5%
Kings Mountain City	263	81.9%	92.3%	. 63	27.4%	57.7%	13	3.8%	8.0%			60.64
Shelby City	234	92.9%	92.1%	153	84,8%	60.9%	19	7.0%	8.2%			83.1%
Staatun Dounty	2140	86.0%	99.8%	972	\$8.2%	48.2%	387	13.0%	20.0%			14.14
Lincoln County	571		88.9%	265	36.4%	44.1%	33	4.3%	5.8%	2.4		96.8%
Mechienburg County	4482	84.1%	#3,3%	2527	43.0%	52.9%	769	12.0%			••••	98.89
Rowan County	1007	63.8%	90.5%	478	40.4%	52.2%	151	11.0%				85.6%
Stanty County	447	87.0%	92.2%	203	39.6%	47,2%	71	12.0%				87.7%
Albemarie City	149	106.4%	105.7%	89	65.4%	65.4%	20					86.7%
								4 4 4 4	44 44			81.49
Union County	802	44.6%	94.1%	230	23.5%	28.4%	109	10.0%	13.6% 9.6%		91.9% 83,3%	77.2%



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NORTHWEST REGION		Algebra I Percent	Percent		Geometry Percent	Percent		Algebra II - Percent	Percent 11th Grade	Number	US History - Percent 8th Grade	Percent 11th Grade
School System	Number Tested	91h Grade 1968-99	9th Grade 1 969-9 0	Number Tested	9th Grade 1947-88	10th Grade 1989-90	Number Tested	8th Grade 1986-87	1909-90	Teeted	1966-57	1909-90
Alexander County	200	71,6%	71.4%	190	49.6%	49.5%	163	49.0%	84,0%	204	77.8%	97.4%
Alleghany County	63	50.4%	47.0%	65	51.2%	54.0%	64	40.2%	56.1%	99	78.2%	101.2%
Auha Dounty	172	80.4%	38.8%	123	30.0%	45.1%	144	48.0%	89.1%	244	- 84.07	
Avery County	108	56.5%	59.0%	98	45.6%	50.8%	65	26.7%	35.3%	178	73.3%	96.7%
Burbe County	825	M2.8%	86.4%	472	45.0%	80.7%	241	38.9%	2000 46.6%		78.7%	10.9%
	525	50.5%	56.3%	411	42.9%	53.0%	201	20.0%	42.0%	663	70.2%	100.9%
Caldwell County	167	88.0%	64.6%	397	39.7%	41.5%	475	47.5%	** ** 184% *	9 PH St. 707	14.4	********
Catamba County	***	85.5%	70.0%	214	83.3%	73.5%	204	52.4%	05.0%	291	78.8%	96.1%
Hickory City	263	M.2%	10.3%	118	41.1%	# #2.4%	118	49.2%	11.1%	194 Big 194	****	***** ** . * *
Heretan City	204			210	65.7%	50.2%	147	35.1%	43.2%	312	74.5%	61.8%
Davie County	256	70.5%	72.9%	370	83.776 83.876	48.3%	358	3.0.00	52.7%	·	75.5%	
Iredell County	* * * *	**** ***	" ****			52.0%	Y01	50.6%	60.1%	152	78.4%	90.5%
Mooresville City		63.0%	63.0%	79	54.9% 48.0%	92.0%	117	48.8%	60.5%		77.9%	16.49
Statesville City	100	80.2%	00.8%	123		50.4%	230	38.6%	45.4%	400	70.4%	94.7%
Surry County	304	67.0%	63.0%	207	45.0%		: 60	78.6%	78.0%		100.0%	100.09
Sin in City	^ ***** **	14.5%	79.7%	343	74.7%	411010		, -, - , -	85.0%	107	73.8%	85.67
Mount Airy City	160	102.6%	100.0%	90	07.2%	71.4%	02	56.6%		281	74.7%	> 12.73
Wateres Causty	MD 87 9% 500	14.0%	77.7% 62,3%	192	89. 8%	\$8.9%	131	30.7%	43.2%		73.0%	92.49
Wilker County	486	81.4%	50.4%	430	61.0%	57.7%	313	38.4%	40.0%	\$20	73.0% 22.0%	10.89
Yadida County	**************************************	****	341 11.4%	504	\$3.3%	84.8%	133	\$4,7% marata	·** 40.6%	217	English I	
		Biology			Chemistry -			Physica	Percent		Percent	Percen
		Persont	Percent		Percent	Percent		Percent	12th Grade		Sth Grade	Oth Gred
School System	Number	eth Grade	10th Grade	Humber	eth Grade	11th Grade	Number	eberD dre			1968-89	1890-9
	Tooted	1967-86	1909-90	Tested	1996-87	1999-90	Teeted	1905-00	1900-90		*	96.71
Alexander County	348	30 m.1%	11 M.PK	117	30.9%	\$4.7%	ŮÖ.	18.9%	28.2%		95.9%	
	109		81.6%	65	50.0%	67.0%	10	10.3%	13.0%	, 113	90.4%	84.39
Allegheny County	1 / N 199 2 20 7					07.076						
Asha Causty		NY:	SA 1%	. iii	25.7%	34.6%	26	9.0%	11.2%		11.0%	
A A A.			94,1%	70					11.2% 10.7%	165	86.4%	90.21
Avery County	175	01.4%	90.7%	70	29.7%	34.6%	26	9.0%	11.2%	165	80.4% 89.2%	90.21 \$4.61
Burto Coursy	175	91.4% 94.8%	90.7% 96.6%	70 281	29.7% 28.8% 28.0%	36.6% 38.0% 38.8%	26 17	9.0% 7.5%	11.2% 10.7%	165 908 718	86.4% 86.2% 80.1%	90.21 94.94 77.11
Burke County Caldwell County	175 3 705 705	91,4% 94,8% 73.5%	90,7% 96,9% 91,0%	70 281 199	29.7% 28.8% 28.0% 21.1%	\$6,6% 38.0% \$9,8% 30.3%	26 17 119	9.0% 7.5% 10.9%	11.2% 10.7% 18.2%	165 906 710	86.4% 86.2% 80.1%	90.21 94.94 77.11 97.71
Burke County Caldwell County Catalogic County	175 996 705 947	91,4% 94.8% 73.8% 93.9%	90.7% 95.6% 91.0% 99.1%	70 281 199 324	29,7% 28,8% 28,0% 21,1% 92,4%	38.6% 38.6% 38.6% 30.3% 41.2%	26 17 119 40	9.5% 7.5% 10.9% 4.5%	11.2% 10.7% 16.2% 7.0% 13.4%	165 908 710	86.4% 89.8% 80.1% 80.3% 87.3%	90.21 94.94 77.11 97.71 78.61
Suchi County Caldwell County Catalina County Hickory City	175 996 705 957 268	01.4% 04.0% 73.6% 05.0%	90.7% 95.6% 81.0% 99.1% 81.4%	70 281 199 324 163	28.3% 28.8% 28.0% 21.1% 92.4% 41.9%	\$6.6% 38.6% \$5,8% 30.3% 41.2% 52.4%	26 17 119 40 116 55	9.0% 7.5% 10.9% 4.5% 10.8%	11.2% 10.7% 16.2% 7.0% 13.4% 20.8%	165 906 710 878 280	86.4% 86.8% 80.1% 80.3% 87.3%	90.21 94.94 77.11 97.71 78.61
Burke County Caldwell County Catalogic County	175 990 705 987 260 201	91.4% 94.8% 73.5% 95.9% 78.7% 90.8%	90.7% 95.8% 81.0% 89.1% 81.4% 110.8%	70 281 199 324 163	29,7% 28,8% 28,0% 21,1% 92,4% 41,9% 58,2%	\$1,6% 38.0% \$5,8% 30.3% 41,2% 52.4% 48.7%	26 17 119 40 114 55	9.0% 7.5% 10.9% 4.5% 10.9% 14.4% 8.6%	11.2% 10.7% 16.2% 7.0% 13.4% 20.8%	165 908 710 878 280	86.4% 89.2% 80.1% 90.3% 87.3%	90.21 94.94 77.11 97.75 78.81 90.75
Busto County Caldwell County Catalina County Hickory City	175 996 705 987 269 201 292	91.4% 94.8% 73.5% 95.9% 70.7% 90.8%	90.7% 95.8% 91.0% 99.1% 91.4% 110.8% 80.8%	70 281 199 324 163 92	29.7% 20.8% 20.0% 21.1% 92.4% 41.8% 38.3% 35.1%	\$4.6% \$8.6% \$8.6% \$0.3% A1.2% \$2.4% A8.7% 43.2%	26 17 119 40 114 55 18	9.0% 7.5% 10.9% 4.5% 10.9% 14.4% 8.6% 6.2%	11.2% 10.7% 18.2% 7.0% 13.4% 20.8% 11.8% 8.7%	165 908 710 878 280 280 330	86.4% 89.2% 80.1% 60.3% 67.3% 95.1% 80.9%	90.29 94.04 77.19 97.79 78.89 90.79 94.01
Surfa County Caldwell County Catalina County Hickory City Helwich City	175 996 705 987 260 201 292 751	81.4% 94.8% 73.8% 95.9% 78.7% 90.8% 2 77.5% 86.6%	90,7% 95,8% 81,0% 99,1% 81,4% 110,8% 90,1%	70 281 199 324 163 92 147 223	29.7% 29.6% 29.6% 21.1% 92.4% 41.8% 38.2% 35.1% 29.8%	\$4.6% \$8.6% \$8.6% \$0.3% 41.2% \$2.4% \$8.7% 43.2% 47.8%	26 17 18 40 116 55 18 25 63	9.0% 7.5% 10.9% 4.5% 10.9% 14.4% 8.6% 6.2% 6.4%	11.2% 10.7% 18.2% 7.0% 13.4% 20.8% 11.8% 8.7% 7.8%	165 608 710 280 280 280 238 330	86.4% 89.2% 80.1% 80.3% 87.3% 95.1% 90.9% \$1.8%	90,25 94,91 77,15 97,75 78,85 90,75 94,05 87,25
Surfa County Catching County Catching County Hickory City Heavier City Davis County	175 996 705 987 200 200 202 798	81.4% 94.8% 73.8% 95.9% 78.7% 90.8% 2 77.5% 8 86.6%	90,7% 95,8% 81,0% 99,1% 81,4% 110,8% 90,1% 107,2%	70 281 199 324 163 92 147 223	29.7% 20.8% 20.0% 21.1% 92.4% 41.8% 38.3% 35.1% 29.3%	\$4.6% 38.0% \$5.6% 30.3% 41.2% 52.4% 48.7% 43.2% 43.2% 43.2% 31.0%	26 17 119 40 116 55 10 25 63	9.0% 7.5% 10.9% 4.5% 10.9% 14.4% 8.6% 6.2% 6.6%	11.2% 10.7% 18.2% 7.0% 13.4% 20.8% 11.8% 8.7% 7.6% 7.3%	165 908 710 280 280 280 330 270 160	86.4% 89.2% 80.1% 60.3% 67.3% 99.1% 90.9% 81.8% 89.4%	90,21 94,94 77,11 97,71 78,61 90,71 94,01 87,21 89,41
Surfa County Catchwell County Catchwa County Hickory City Heavier City Devia County Fradell County	175 996 705 987 260 201 292 751	81.4% 94.8% 73.8% 95.9% 78.7% 90.8% 2 77.5% 8 86.6%	90.7% 96.8% 91.0% 99.1% 91.4% 110.8% 90.1% 107.2% 87.4%	70 281 199 324 163 92 147 223 52	29.7% 29.0% 29.0% 21.1% 92.4% 41.9% 36.3% 35.1% 29.3% 40.4%	\$4.6% 38.0% 38.6% 30.3% 41.2% 52.4% 48.7% 48.7% 43.2% 43.2% 47.6% \$1.0% \$0.0%	28 17 119 48 116 55 10 25 65 11	9.0% 7.5% 10.9% 4.5% 10.9% 14.4% 8.6% 6.2% 6.6% 6.5% 2.4%	11.2% 10.7% 18.2% 7.0% 13.4% 20.8% 11.8% 7.8% 7.3% 9.2%	165 908 718 288 288 238 330 700	86.4% 89.2% 80.1% 60.3% 67.3% 95.5% 61.8% 89.4% 71.8%	90,29 94,64 77,19 87,79 78,69 90,79 94,09 87,29 88,49
Surfa County Catcheel County Catcheel County Hickory City Heavier City Devia County Iredall County Mooresville City Statesville City	175 996 705 987 200 200 202 798	81.4% 94.8% 73.8% 95.0% 78.7% 90.8% 77.5% 86.6% 113.2% 79.7%	90.7% 96.8% 81.0% 89.1% 81.4% 110.8% 10.8% 90.1% 90.1% 97.2% 87.4% 98.2%	70 281 199 324 163 92 147 223 52 97	29,7% 28,8% 28,0% 21,1% 52,4% 41,8% 35,1% 59,8% 26,1% 40,4% 43,2%	\$4.6% 38.0% 38.6% 30.3% 41.2% 52.4% 48.7% 43.2% 47.6% 53.5%	28 17 119 48 116 55 10 25 65 11 7	9.0% 7.5% 10.9% 4.5% 10.9% 14.4% 8.6% 6.5% 6.5% 2.4% 4.6%	11.2% 10.7% 18.2% 7.0% 18.4% 20.8% 11.8% 8.7% 7.8% 7.3% 9.2% 8.1%	165 908 718 878 280 218 330 168 168	86.4% 89.2% 80.1% 60.3% 67.3% 93.1% 90.9% 91.8% 89.4% 71.8%	90.21 94.04 77.19 97.79 90.77 94.05 87.29 98.45 98.47
Burké Courty Caldwell County Caldwell County Hickory City House County Fradell County Moorse/life City Surry County	175 960 705 967 260 200 292 751 183 181 551	81.4% 94.8% 73.8% 95.9% 70.7% 90.8% 2 77.5% 84.6% 3 113.2% 70.7% 88.9%	90.7% 96.8% 91.0% 99.1% 91.4% 110.8% 90.1% 107.2% 87.4%	70 281 199 324 163 92 147 223 52 97 282	29,7% 28,8% 28,0% 21,1% 92,4% 41,8% 36,3% 35,1% 28,1% 26,1% 40,4% 43,2% 50,8%	\$4.6% 38.0% 38.6% 30.3% 41.2% 52.4% 48.7% 43.2% 47.6% 53.5% 56.6%	28 17 119 48 116 55 10 25 65 11 17	9.0% 7.5% 10.9% 4.5% 10.9% 14.4% 8.6% 6.2% 6.5% 2.4% 4.6% 3.0%	11.2% 10.7% 18.2% 7.0% 13.4% 20.8% 11.8% 8.7% 7.8% 7.3% 9.2% 8.1% 4.5%	165 908 718 288 288 330 168 168 191	86.4% 89.2% 80.1% 60.3% 67.3% 93.1% 90.9% 91.8% 89.4% 71.8% 94.8%	90.25 94.95 77.15 97.75 90.75 94.05 87.25 98.45 98.05
Burté Courty Caldwell County Catains County Hickory City Heavier City Davia County Iredell County Mooresville City Surry County Ets in City	175 967 269 269 269 291 183 181 551	81.4% 94.8% 73.5% 95.9% 70.7% 90.8% 2 77.5% 96.6% 113.2% 70.7% 88.9% 7 102.7%	90.7% 96.8% 81.0% 89.1% 81.4% 110.8% 10.8% 90.1% 90.1% 97.2% 87.4% 98.2%	70 281 199 324 163 92 147 223 52 97	29,7% 28,8% 28,0% 21,1% 92,4% 41,9% 38,2% 35,1% 29,3% 40,4% 40,4% 50,8% 35,9%	\$4.6% 38.0% 38.8% 30.3% 41.2% 52.4% 48.7% 43.2% 47.8% 31.0% 80.0% 53.5% 56.8% 41.6%	28 17 110 48 116 55 18 25 65 11 7 32 3	9.0% 7.5% 10.9% 4.5% 10.9% 14.4% 8.6% 6.2% 6.6% 4.6% 4.6% 10.5%	11.2% 10.7% 18.2% 7.0% 13.4% 20.8% 11.8% 8.7% 7.8% 7.3% 8.1% 4.5% 29.1%	165 908 718 278 288 330 2700 168 191 556 70	86.4% 89.2% 80.1% 60.3% 67.3% 93.1% 90.9% 91.8% 71.8% 94.6% 100.0%	90.29 94.69 77.19 87.79 90.79 94.09 87.29 98.49 98.09
Busts County Catching County Tatching County Hickory City Header City Davis County Iredell County Mooresville City Surry County Ets in City Mount Airy City	175 960 705 967 200 200 201 201 103 181 551 77	81.4% 94.8% 73.8% 95.8% 78.7% 90.8% 77.5% 96.8% 113.2% 102.7% 102.7% 103.7%	90.7% 96.8% 81.0% 89.1% 81.4% 110.8% 10.8% 90.1% 107.2% 87.4% 98.2% 92.8% 110.3%	70 281 199 324 163 92 147 223 52 97 282	29,7% 28,8% 28,0% 21,1% 92,4% 41,8% 36,3% 35,1% 26,1% 40,4% 40,4% 50,8% 35,8%	\$4.6% 38.0% 38.8% 30.3% 41.2% 52.4% 48.7% 43.2% 47.8% 31.0% \$0.0% 53.5% \$6.8% 41.6% 34.0%	28 17 110 48 116 55 18 25 63 11 7 32 3	8.0% 7.5% 10.9% 4.5% 10.8% 14.4% 8.6% 6.2% 6.6% 4.6% 3.0% 10.5% 10.5%	11.2% 10.7% 18.2% 7.0% 13.4% 20.8% 11.8% 8.7% 7.3% 9.2% 8.1% 4.5% 29.1%	165 908 718 278 288 218 330 168 168 191 556 70	86.4% 89.2% 80.1% 60.3% 67.3% 93.1% 90.9% 21.8% 71.8% 94.6% 100.0% 88.4%	90.25 94.99 77.15 97.75 90.75 94.05 87.25 98.05 94.85 96.25
Busto County Caldwell County Catalities County Hickory City Hewlen City Davia County Iredail County Mooresville City Surry County Etkin City Mount Alry City	175 967 269 269 269 291 183 181 551	81.4% 94.8% 73.8% 95.9% 70.7% 90.8% 77.5% 13.2% 13.2% 102.7% 88.9% 102.7% 88.9% 103.7% 88.9%	90.7% 96.8% 91.0% 99.1% 91.4% 110.8% 90.1% 107.2% 87.4% 98.2% 92.8% 110.3%	70 281 199 324 163 92 147 223 52 97 282 33	29,7% 28,8% 21,1% 92,4% 41,8% 38,2% 35,1% 28,3% 26,1% 40,4% 40,4% 50,8% 35,9% 35,9%	\$4.6% 38.0% 38.8% 30.3% 41.2% 52.4% 48.7% 43.2% 47.8% 31.0% 80.0% 53.5% 56.8% 41.6%	28 17 110 48 116 55 18 25 65 11 7 32 3	9.0% 7.5% 10.9% 4.5% 10.9% 14.4% 8.6% 6.2% 6.6% 4.6% 4.6% 10.5% 10.5%	11.2% 10.7% 18.2% 7.0% 13.4% 20.8% 11.8% 8.7% 7.8% 9.2% 8.1% 4.5% 29.1% 14.1%	165 908 718 288 218 330 700 168 556 70 137	86.4% 89.2% 80.1% 60.3% 67.3% 89.1% 90.9% 21.8% 94.8% 100.0% 86.4% 84.1% 92.0%	90.29 94.99 77.19 97.79 90.79 94.09 87.29 98.09 98.09 96.02 96.02



WESTERN REGION		Algebra i - Percent	Percent		Geometry - Percent	Percent		Algebra II -	Percent 11th Grade	Number	US History - Percent 8th Grade	Percent 11th Grade
School System	Number Tested	8th Grade 1988-89	9th Grade 1989-90	Number Tested	8th Grade 1987-88	10th Grade 1989-90	Number Tested	8th Grade 1966-87	1989-90	Tested	1986-87	1989-80
Buncombe County	1330	79.5%	72.3%	B44	50.8%	53,1%	967	50.1%	60.0%	1474	#3.2%	99.7%
Asheville City	256	82.1%	82.6%	197	58.5%	57.9%	136	43.2%	52.9%	254	80.6%	96.8%
Cherokse County	170	58.7%	56.7%	132	41.0%	49.5 %	109	\$0.9%	69.8%	244	12.2%	100.0%
Clay County	44	50.0%	45.8%	86	85.1%	81.5%	40	32.8%	40.0%	99	81.1%	99.0%
Graham County	30	84.8%	82.4%	\$3	58.4%	£1.6%	. 86	49.1%	62.2%		77.2%	97,0%
Havwood County	428	73.8%	77.3%	313	51.6%	56.2%	258	38.5%	45.6%	559	83.1%	96.4%
Henderson County	401	60.7%	61.0%	299	.44.1%	47.2%	290	43.3%		S-80 4414	71.0%	\$2.29
Hendersonville City	152	153.5%	118.0%	52	45.2%	41.3%	127	105.0%	90.7%	134	110.7%	95.7%
Jackson County	258	43.8%	90.5%	173	88.8%	62.8%	110	36.5%	43.5%	241	80.1%	96.3%
Macon County	172	64.4%	59.9%	102	37.2%	44.0%	131	53.8%	63.9%	187	81.1%	96.1%
Madison County	142	85.4%	63.4%	68	28.8%	33.8%	44	26.5%	34.9%	100	72.3%	96.2%
McDowell County	344	63.9%	68.3%	. 243	42.0%	43.8%	194	33.3%	43.0%	386	68.0%	87.8%
Millionell County	148	102.1%	86.5%	62	43.2%	52.2%	69	34.0%	45.3%	137	89.2%	#1,0%
· •	108	62.6%	58.6%	59	35.8%	41.0%	65	46.7%	66.4%	119	65.4%	93.09
Polk County Rutherland County	547	89.7%	66.2%	311	37.6%	43.2%	253	31.1%	40.4%	500	73.7%	16,51
Swain County	81	72.2%	65.0%	80	79.8%	82.7%	75	48.1%	66.4%	109	69.9%	96.57
Transylvania County	262	81.4%	76.4%	162	84.2%	80.3%	163	50.8%	56.4%	247	82.1%	94.39
Yancey County	152	60.2%	62.0%	81	38.2%	43.5%	90	40.2%	46.8%	177	79.0%	92.29
·		Biology			Chemistry			Physics			English I	
		Percent	Percent		Percent	Percent		Percent	Percent		Percent	Percen 2th Grad
School System	Number	8th Grade	10th Grade	Number	31h Grade	11th Grade	Number	8th Grade	12th Grade	Number	8th Grade 1988-89	200 GP80
	Tested	1007-88	1989-90	Tested	1986-87	1989-90	Tested	1985-84	1989-90	Tested		•
Suncomba County	1543	92.8%	97.0%	41	36.2%	43,4%	170	9.5%	11.0%	1550	• • •	84,79
Asheville City	298	88.7%	87.9%	133		51.8%	49	15.6%	18.8%	289		93.21 96.71
Cherokee County	253	61.8%	30.0%	104		49.0%	55	18.4%	24.1%	260		
Clay County	98	87.0%	104.3%	47		47.0%	10	11.8%	12.0%	83		88.39
Graham County		102.1%	111,6%	28		31.1%	10	8,8%	14.3%	100		92.4
Haywood County	552	90.9%	99.1%	256		45.4%	59	8.0%	11.2%	513		92.49
Henderson County	561	\$3.9%	1.0 90.7%	192	27.9%	38.8%	43	8.8%	7.6%			. 10.15
Hendersonville City	148	127.0%	115.9%	77	83.6%	55.0%	21	20.2%	10.7%	110		92.21
Jackson County	265	34,5%	97.1%	109	36.2%	43.1%	15	11,3%		205		
Macon County	228	83.2%	96.3%	83	34.2%	40.5%	31	12.0%	15.0%	249		
Madison County	107	70.8%	43.1%	77	30.9%	40.7%	20			201		
McDowell County	493		88.0%	161	27.7%	35.7%	69					
Mitchell County	226		143.9%	37	18.7%	24.8%	13	7.4%				
Polk County	131		81.0%	80		62.5%	21		18.4%			
	961			171	22.0%	26.5%	47	\$.5%				
Rutherland County	98			61		61.1%	11	8.2%				
Swain County	334			13			92	26.6%	\$3.6%	301	95.0%	
Transylvániá County	334 171			43		-	18		11.7%	206	92.4%	84.1
Yencey County	171	eu./%	V1.274	7.			,-					



Participation in Next Course in Math and Science Sequence by School System

NORTHEAST REG	ION		Percent		Percent		Percent			Percent		Percent		Percent	
	Eighth	N Tested	ADM	N Tested	Algebra I Taking	N Tested Algebra II	Geometry	Eighth Grade ADM	N Tested Biology	ADM Taking	N Tested Chemistry	Biology Taking	N Tested Physics	Chemistry Taking	
School System	Grade ADM 1986-87	Algebra I 1987-88	Taking Algebra I	Geometry 1988-89	Geometry	1989-90	•	1985-86	1987-88	Biology	1988-89	Chemistry	1989-90	Physics	
Beaufort County	331	196	59.2%	131	66.8%	113	86.3%	328	346	105.5%	77	22.3%	28	36.4%	
Washington City	285	230	80.7%	159	69.1%	122	76.7%	310	279	90.0%	135	48.4%	38	28.1%	
Bertis County	285	227	79.6%	127	55.9%	85	66.9%	286	298	184.2%	44	26.1%	11	#1.41	
Camden County	84	78	92.9%	28	35.9%	43	153.6%	90	85	94.4%	35	41.2%	18	51.4%	
Chowan County	182	136	74.7%	106	77.9%	79	7A.5%	160	14	19234	83		•		
Currituck County	167	112	67.1%	81	72.3%	59		190		84.2%	51	31.9%	24	47.1%	
Dare County	191	132	49.1%	123				201		73.6%			22	25.0%	
Gates County	119	88	73.9%	55				153	400000000000000000000000000000000000000	83.0%	60 155		29 15	48.3% 9.7%	
Hertford County	391	222			52.2%			327 78		117.1% 89.7%			•	56.3%	
Hyde County	74	39		30	388.8448C			arterest of P.C.C.	- (4886-385)	74.8%				5480348.B.Seekt	
Martin County	454			229 229		17 1911 - 111 101 10		396		89.4%	148		14	9.5%	
Pasquotank County		304 96	(4.000000000000000000000000000000000000					18/8/94/VALUE	100 S.A. L.	20.4%	und bikanii	7888 E 3833		13.8%	
Perquiment Count	1231	783			•					107.9%	595	44.9%	222	37.3%	
Tyrrell County	63						B7.5%	91	30	98.8%	17	34.0%	12	78.6%	
Washington Count	physiophysiophysia (1974)	·	69.1%	106	63.1 %	81	77.4%	218	187	85.8%	76	40.6%	8	10.5%	

Percent ADM taking Algebra I (or Biology) is the estimated percentage of students in an eighth-grade class who will take Algebra I (or Biology). Other percentages represent the estimated percentage of students in one course taking the next course in the sequence. All calculations are based on the assumption that students take courses in the following sequence: Algebra I, Geometry, Algebra II; or Biology, Chemistry, Physics.



SOUTHEAST REG	Eighth Grade ADM 1986-87	N Tested Algebra I 1987-88	Percent ADM Taking Algebra I	N Tested Geometry 1988-89	Percent Algebra I Taking Geometry	N Tested Algebra II 1989-90	Taking	Eighth Grade ADM 1985-86	N Tested Biology 1987-88	Percent ADM Taking Blology	N Tested Chemistry 1988-89	Percent Biology Taking Chemistry	N Tested Physics 1989-90	Percent Chemistry Taking Physics
were second a second	. 3.3 0.0000000000000000000000000000000	********	- 74198m - 6		Ů.	.K. 1	sta stati			-200000				***
Brunswick County	719	420	58.4%	278	68.2%		75.2%	662	600	98.6%	136	39.3%	73 48	38.9 % 19.2 %
Cartere: County	600	367	61.2%	293	79.8%	236	80.5%	627	532	84.8%	234	44.0%	45 116	32.1%
Craven County	994	789	76.4%	579	76.3%		72.5%	1058	1**	15.0%	361	• • •	50	25.4%
Duplin County	638	403	63.2%	272	67.5%	238	87.5%	660	567	8 5.9%	197	34.7%	30	23.3%
Greens County	227	136	59.9%	92	67.6%	·현선 변환 7#	11.5%	239	187	78.2%	¥	,		20.8%
Jones County	122	97	79.5%	48	49.5%	28		13•	114	85.1%	48 	42.1% 39.9%	10 18	16.3%
Landr County	\$35	354	66.5%	282	79,2%	232	82.3%	495	436	**15	374		•	
Kinston City	404	236	58.4%	179	75.8%	139		389	309	79.4%	103 	1888 Q.E. (A.)	43	41.7% 34.2%
New Hannver Cou	nty 1930	1150	75.2%	19 1	77.5%	704	79.2%	1609		85.1%			279	
Onslow County	1225	821	67.0%	622	75.8%	569	91.5%	1239	1199	96.8%		WW.3	140	36.6%
Pamiles County	161	163	64,0%	75	71.8%		65.3%	168		91.1%			15	34,8%
Pender County	416	253	60.8%	175	69.2%	142	81.1%	418	10 10 17 PM.	94.3%	1345 78 C	. 38% i A	47	51.1%
Sampson County	474	304	63.3%	218	72.7%	r san Ai le	82.6%	526			•		18	
Clinton City	212	145	68.4%	, 99 .aag aga s	68.3%			200	WYY NAME	80.5%	w		و حدف 🔗	22.0%
Wayna County	1037	684	66.0%	685	18.5%	100 mil 47	79.2%	1020					10.101115	29.5%
Goldsboro City	351	265	75.5%	206	77.7%	164	79.6%	411	338	82.2%	12:	37.0%	13	10.4%

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Participation in Next Course in Math and Science Sequence by School System

CENTRAL REGION School System	Eighth Grade ADM 1986-87	N Tested Algebra I 1987-88	Percent ADM Taking Algebra 1	N Tested Geometry 1988-89	Percent Algebra I Taking Geometry	N Tested Algebra II 1939-90	Percent Geometry Taking Aigebra II	Eighth Grade ADM 1985-86	N Tested Biology 1987-88	Percent ADM Taking Biology	N Tested Chemistry 1988-89	Percent Biology Taking Chemistry	N Tested Physics 1989-90	Percent Chemistry Taking Physics
		1067	79.7%	832	78.0%	726	87.3%	1411	1332	94.4%	643	48.3%	265	41.2%
Durham County	1339					203		638	459	71.9%	241	52.5%	52	21.6%
Durham City	603	432	71.6%	248	57.4%	Partie 3			347	99.3%	173	47.1%	55	34.1%
Edgezombe County	393	245	623%	163	66.5%	120		454			144		44	38.6%
Tarboro City	219	133	60.7%	114	85.7%	89	:8.1%	233	209	89.7%	114	4000*************		
Prankles County	419	258	61.6%	163	63.2%	124	76.1%	369	333	98.3%	×			31114
	123	68	55.3%	48	70.6%	38	79.2%	131	105	80.2%	1 9 Japan Lagar (1986)	18.1%		47.49
Franklinton City							75.0%	30 5	443	87,7%	221	49.9%	43	1939
Granville County	578	335	54.0%					507	425	83.8%	145	34.1%	43	29.79
Halifax County	557	407	73.1%	188								29.488888 S 40	17	31.59
Romoke Rapids Cit	, 11 7	190	87.5%	159	8149	. 12	1 124%	200			and a second	* ************************************	agrijangana zaza ku	of the Specialist of the second
Weldon City	82	69	84.1 %	57	82.6%	3 (5 61.4%	104	87	National Calculation			\$3000000000000000000000000000000000000	
	1143	777	68.0%	. 577	74.39	, 42	73.3%	1217	1118	91.99	46.	41.4%	149	
Johnston County	AND CANADOM CONTRACTOR	V. 1 (M. 1. M.	or agreement of the con-		76.19	37	4 77.8%	922	798	86.6%	329	41.2%	, 81	26.79
Nash County	928				320384933	3,7000000000000000000000000000000000000	6 73.4%	454	341	75.9%	14	2 41.09	. 57	47.29
Rocky Mount City	454	216	***					Acres a recognition and a constraint of the		94.59	6 13	0 41.9%	30	23.19
Northampton Coun	ty 315	245	77.89	, 14 0	75/1888				F 2000 () 2000 ()				71	41.31
Vance County	571	360	\$2.31	234	65.61	h 17	1 72.5%				W. *.	-1 100 × 345		er en Nederschaft
Wake County	422	3628	85.89	6 2820	D 77.79	6 275	5 97.7%	4491	4211	93.89				
	239		61.99	10	68.29	.	69.34	239	14	104.24	6000000	0 16.14		2.51
Warren County						6 32	26 76.3%	969	9 850	B7.79	6 37	7 44.49	6 78	3 20.79
Wilson County	94	5 607	64.29	1 0 42	, 14.5					all ank a Alm		oloox) Othe		

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SOUTH CFNTRAL School System	REGION Eighth Grade ADM 1986-87	N Tested Algebra I 1987-88		N Tested Geometry 1988-89	Percent Algebra I Taking Geometry		Taking	Eighth Grade ADM 1985-86	N Tested Biology 1987-88	Percent ADM Taking Biology	N Tested Chemistry 1988-89	Percent Biclogy Taking Chemistry	N Tested Physics 1989-90	Percent Chemistry Taking Physics
Blades County	497	345	69.4%	245	71.0%	185	75.5%	306	452	89.3%	168	37.2%	30	17.9%
Columbus County Whiteville City	658 196			217 118	59.9% 73.8%	160		693 218	574 181	82.8% 83.5%	106 78		0 64	0.0%
Cumberland Count	y 3251 886			393K. Z 200				3414 917	3216 837	94.2% 91.3%	1479 279		338 43	
Hoke County	379 53 7							374 589	315 \$10	84.2% 86.6%		38.4%	29 43	
Montgomery Coun	ty 354 49 1			1844au y 1921				323 704			255	44.7%	54 86	
Richmond County Roberts County	719 202 4		TXXXXXX 73.78	\$\$\$(\$\$\#\#\#\	. 898844.50	788684		742 209 5		73.5% 79.0%		ad##177.	36 151	21.9%
Scotland County	570	6 479	83.2 %	213	44.5%	277	127.7%	621	530	85.3%	119	22.5%	28	23.5%

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Participation in Next Course in Math and Science Sequence by School System

NORTH CENTRAL	REGION		Percent		Percent		Percent			Percent		Percent		Percent
School System	Eighth Grade ADM 1986-87	N Tested Algebra I 1987-88	ADM Taking Algebra I	N Tested Geometry 1988-89	Algebra I Taking Geometry	N Tested Algebra II 1983-90	Geometry Taking Algebra II	Eighth Grade ADM 1985-86	N Tested Biology 1987-88	ADM Taking Biology	N Tested Chemistry 1988-89	Biology Taking Chemistry	N Tested Physics 1989-90	Chemistry Taking Physics
Alamanea County	784	555	70.8%	428	77.1%	315	73.6%	917	826	98.1%	398	63.3%	96	24.3%
Burlington City	519	381	73.4%	305	80.1%	232	76.1%	597	532	89.1%	263	49.4%	132	50.2%
Carnell County	292	225	77.1%	149	64.2%	113	75.8%	305	281	92.1%	131	46.6%	33	25.2%
Chatham County	450	296	65.8%	190	64.2%	180	94.7%	483	370	76.6%	153	41.4%	32	20.9%
Davidson County	1244	903	70.1%	717	79.4%	583	#1.3%	1334	1195	\$4.6 W	587	89.1%	224	34.2%
Lexington City	269	161	59.9%	120	74.5%	75	62.5%	279	235	84.2%	74	31.5%	48	64.9%
Thomsortle City	196	146	74.5%	100	68,5%	99	69,0%	191	169	84.5%	"	39.15	15	22.7%
Forsyth County	2724	2077	76.2%	1598	76.9%	1433	89.7%	3070	2873	93.6%	1134	######################################	439	38.7%
Guilford County	1994	1366	69.9%	1083	79.3%	933	# ·=	1965	1777	33.5%	903	***************************************	224	243%
Greensboro City	1579	1422	90.1%	1056	74.3%	797	75.5%	1757	1436	81.7%	809	700000000 TV6	288	35.6%
High Point City	394	354	59,4%	249	74,0%	239	88,8#	506	506	23.5%			NO.	24.7%
Orange County	417	316	75.8%	238	75.3%	185	77.7%	405	4888888	75.1%			37	28.5%
Chapel Hill City	417	344	£3.9%	304	36.7%	. 24	1 80.79			97.3%	,	,	173	
Person County	425	318	74.8%	195	61.3%	, 14	75.9%			86.6%	2-02-20	00000000000000000000000000000000000000	82 69	R 18169
Randolph County	1063	635	59.7%	391	62.8%	29)				81.99				
Asheboro City	287	202	70.4%	, 16!						83.69				ir yiki sii.
Rockingham Cora	aty 256	251	101.2%	h 30 (* 12 1	46.79	•		·	•	12.54			·	
Eden City	299	232	77.69											
West. Rockinghar	n 316	.221	69.99									**		
Reidsville City	306	209	68.39								diam'e	35.2%	e ta di e i Mel	
Stokes County	559	299	52.89	6 22	4 75.99	b	\$ 82.69	% 1 - 4 5 1 - 5 1 57)	1 525	9L99	• · · · · · · · · · · · · · · · · · · ·	ar ; (; () ; ()		W. 1 30 EVI /

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SOUTHWEST REC	GION		Percent		Percent		Percent			Percent		Percent	NI Maraka d	Percent
School System	Eighth Grade ADM 1986-87	N Tested Algebra I 1987-88	ADM Taking Algebra I	N Tested Geometry 1988-89	Algebra 1 Taking Geometry	N Tested Algebra II 1989-90	Geometry Taking Algebra 11	Eighth Grade ADM 1985-86	N Tested Blology 1987-88	ADM Taking Biology	N Tested Chemistry 1988-89	Biology Taking Chemistry	N Tested Physics 1989-90	Chemistry Taking Physics
Anson County	392	255	65.1%	6 190	74.5%	្រំ	13.1%	390	300	97.4%	139	36.6%	39	21.4%
Cabarrus County Kamapolis City	996 384	863 282	86.6% 79.7%	620 214	71.8% 75.9%	526 201		1043 314	876 279	84.0% 84.1%	412 144	47.0% 51.6%	110 33	26.7% 22.9%
Cleveland County Kings Mossissin C	667 Iy 339	374 173	W-W-1000	284 105	75.9% 60.7%	221 67	77.8% 63.8%	668 3 4 1	558 247	83.5% 74.8%	240 106	43.0 % 39.7 %	42 13	17.5% 12.3%
Shelby City Gaston County	236 2766	184 1723		153 1226	83.2% 71.2%			272 2784	284 2358	104.4% \$4.7%	198 98 6	69.7% 41.8%	19 387	9.6% 39.2%
Lincoln County Macklemburg Core	729	497 4260				2884 (338)	188886000000000000000000000000000000000	775 6007	70 0 5012	90.3% 83.4%	224 2433		33 769	14.7% 25.0%
Rowen County Stanty County	117 8 513	852	9888888797887.		Salakina.	. 144. 2500		1376 592	2.3889/3809 (C)	78.6% 42.7%	524 156		151 71	28.8% 43.5%
Albemarie City Union County	134 985	122	89.7%	88	. Arab				A 1575X \$35 (12)	104.6% 92.8%	75 358	1.8 y	20 1 9 9	26.7% 38.7%
Monroe City	254						85.0%	252	204	81.0%	92	45.1%	17	18.5%

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11%

Participation in Next Course in Math and Science Sequence by School System

NORTHWEST REC	GION Eighth	N Tested	Percent ADM	N Tested	Percent Algebra 1	N Tested	Percent Geometry	Eighth	N Tested	Percent ADM	N Tested	Percent Biology	N Tested	Percent Chemistry
School System	Grade ADM 1986-87	Algebra 1 1987-88	Taking Algebra 1	Geometry 1988-89		Algebra II 1989-90	Taking Algebra 11	Grade ADM 1985-86	Biology 1987-88	Taking Biology	1968-89	Taking Chemistry	Physics 1989-90	Taking Physics
Alexander County	379	329	86,8%	219	44,6%	163		424	393	92.7%	189	45.8% 42.0%	88 16	44.4% 27.6%
Alleghany County Asha County	130 306	112 188	86,2% 62.7%	85 130	75.9% 69.1%	64 144	75.3% 118.8%	156 312	138 276	88.5% 84.5%	58 73	27.3%	28	37.3%
Avery County	243	160	65.8%	112		65	58,0% 84,1%	227 1692	187 965	52.4% \$8.4%	54 279	28.9% 28.9%	17 119	31.5% 42.7%
Burke County Caldwell County	1005 944	623 575	62.0 % 60.9 %	429 415	68.9% 72.2%	281		1074	777	72.3%	197	25.4%	48	24.4%
Catavius County	100 i 389	617 347	61.6% 89.2%	394		·	•	1068 381	313	87.0% 82.2%	343 141		11 6 55	33.4% 39.6%
Hickory Chy Newton Chy	244	160	46.7%	115	71.9%		• •	2 0 5 404	178 321	86.8% 79.5%	83 141		18 25	21.7% 17.7%
Davie County Tradel County	419 823	290 743					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		73\$	AJ:	337	43.9%	55	
Mooresville City	199 244		0.88884-1312	10.2 wisk		1110	MALEY LANGE	169 296		1.11	52 111		11 7	21.2% 4.4%
Surry County	653	454	69.5%	321	70.79	23:	2 A CONTROL OF THE		18 3 3 3 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.387.808.000				
Eikia City Mount Airy City	6.1 14.5	2000	2. 190000. 11 1011		, in programme and	122 1324	The state of the s	164	105	64.0%	7'	7 73.3%	32	
Watauga County	35° 860		-	•		•						•		
Wilkes County Yadkin County	38		65.09				3 76.6%	401	6330 37 1			3 33.2%	•	163%

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WESTERN REGIO)t _i		Percent		Percent		Percent			Percent		Percent	NI Militaria di	Percent
	Elghth Grade ADM	N Tested Algebra I	ADM Taking	N Tested Geometry	Algebra I Taking	N Tested Algebra II	Taking	Eighth Grade ADM	N Tested Biology	ADM Taking Biology	N Tested Chemistry 1968-89	Biology Taking Chemistry	N Tested Physics 1989-90	Chemistry Taking Physics
School System	1986-87	1987-88	Aigebra i	1988-89	Geometry	1989-90	Algebra II	1985-86	1987-88	DIOIOEY	* : **********	awans kā		
Buncombe County	1771	1342	75.8%	992	73.9%	357	89,4%	1784	1936	84.15	674	43.5%	170	25.2%
Asheville City	315	212	67.3% 62.3%	175 165	82.5% 89.1%	136 169		315 299	275 279	87.3% 93.3%	133 137	48.4% 49.1%	49 53	36.8% 40.1%
Cherokee County Clay County	297 122	185 63	Activities	61	96,8%	40		85	87	102.4%	23	26.4%	10	43.5%
Graham County	\$14	94	92.5%	47	50.0%	- 56		114	u	77.2% 87.6%	41 221	46.6% 38.6%	1 9 59	24.4% 26.7%
Haywood County Henderson County	673 688	480 415		345 316	71.9% 76,1%	259 296		654 7 46	573 577	713%	236	s menerali in 1900. Senerali in 1900.	45	18.2%
Hendersonville Cit		138 202		106 129	76.8% 43.9%	127 110		104 309	149 2 66	143.3% 8 4.1 %	76 143		21 35	27.6% 24.1%
Jackson County Macon County	243	183	75.3%	136	74.3%	131	96.3%	259	233 192	90.0% 89.7%	137	58.8% 49.0%	31 26	22.6% 21.3%
Madison County	249				56,6% 77.1%			214 579	494 494	85.3%		38.5%	69	
McDowell County Michael County	582 198		7 888 70-83			18080 + 18080000		176	••		••	•	13	•
Polk County	182			111	TAN ALIWA		1000000	176 801	132 786			75 9885 H. J.	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	42.0 % 23.6 %
Rutherford Count	y B13 156		*** .05				5 74.3%	•••	124		73	58.9%	11	15.1%
Swain County Transylvania Cou		i dankan i	1. 被蒙古人的					343	351	184.44	177	41.1%	y 3	
Yancey County	224	110	51.89	62	53.4%	, 9	0 145.2%	241	177	73.4%	7.	42.4%	18	24.0%

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Yield and Effective Yield on Selective 1989-90 End-of-Course Tests by School System

NORTHEAST REGION	······A	iaehra I:	•••••	••• •••(G e ometry•	•••••	•••••	Algebra II		•••••С	hemistry			Physics •••	
NORTHEAST REGION	Number	igem a r	Effective	Number	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Effective	Number	•	Effective	Number		Effective	Number	Yield	Effective Yield
School System	Tested	Yield	Yield	Tested	Yield	Yield	Tested	Yield	Yield	Tested	Yield	Yield	Tested	1 jela	I ÆKG
Beaufort County	202	36.3	28.6	125	22.4	20.2	113	21.3	18.3	111	31.7	The second second second	24	4.6	4.2
Washington City	194	43.9	38.5	159	33.6	28.6	122	28.4	24.2	136	29.1	25.5	38	7.0	6.3
Bertle County	155	32.5	31.1	177	30.1	25.8	ಟ	15.0	184	61	13.6	13.1	11	1.7	1.1
Camden County	64	59.1	58.2	37	33.7	?2.8	43	33.8	29.1	33	24.7	24.7	18	13.2	13.2
Chowan County	158	54.7	\$5.2	76	26.9	25.5	79	32.2	34.2	71	24.9	23.9	9	42	4.2
Currituck County	104	55.1	54.5	76	30.1	29.7	59	27.3	26.8	36	14.8	14.8	24	8.5	8.5
	164	43	58.8	8888888 - 15 TO N	39.3	39.2	#	40.4	62	95		33.7	22	15	7.5
Dars County	89	45.9	43.9	56	33.3		44	27.0	25.2	70	34.3	28.9	29	10.6	8.7
Gates County		P\$ \$500000000000000000000000000000000000		145	25.0	0.7888888	ın	19.4	16.8	121	19.8	17.4	15	2.3	2.8
Heritord County	183	37,4		WW. 2004	33.5		21	20.1		21	19.7		9	6.5	6.5
Hyde County	34	29.4	25.1	34	S-Assaulte.		\$\$.48\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	26.1			26.5		69	9.9	9.3
Martin County	318	51.4	42.5	260	35.2		178			144	23.1		14	2.6	
Pasquotank County	282	50.7	47.7	215	32.5		182				88883		8	3.7	
Perquimens County	116	59.7	35.4	79	• • •		46	200000000000000000000000000000000000000			22.2		- potavioromas and in the inter-	paran access of	
Pitt County	864	48.2	45.7	740	38.0	35.4	476		8.558888887.480	467	25.0	i - A8a.02044.	222	12.1	12.0
Tyrrell County	28	39,6	39.6	20	31.2	31.2	28	28.1			23.7		12	11.7	
Washington County	195	54.3	44.9	121	31.2	24.5	82	20.8	3 17.5	87	20.8	15.4	8	2.6	2.6

Yield is an index of the effectiveness of a program which takes into account both participation and performance. It is calculated by multiplying the participation in a course by the average percent of core items answered correctly and then multiplying by 100. Effective yield is a similar index "u. it counts as "participating" in the course only those students whose achievement is above a cutoff point estimating that they will pass the course.



Yield and Effective Yield on Selective 1989-90 End-of-Course Tests by School System

SOUTHEAST REGION	A	igebra l	•••••	•••••(Geometry•	•••••	•••••	Algebra II	••••	•••••C	hemistry			Physics	
School System	Number Tested	Yleld	Effective Yield	Number Tested	Yleld	Effective Yield	Number Tested	Yield	Effective Yield	Number Tested	Yield	Effective Yield	Number Tested	Yield	Effective Yield
School System	4 este u	Tieru	1 (610	i cateu	Tield	(1010		11010	110.0				e e e e e e e e e e e e e e e e e e e	eve de la	
Brunywick County	521		37.2	339	28.5	25.3	209	18.1	. • 15.1	244	19.8	17.9	73	u	47
Carteret County	442	52.9	49.9	318	37.3	35.5	236	29.5	28.5	246	27.2	26.4	45 08/15/38/48: 00:	5.3	5.2
Creven County	670	45.3	42.6	518	33.4	30.2	420	29.5	27.5	313	21.0	29.5	116	1.1	7.3
Duplin County	383	43.6	38.2	284	28.5	23.4	238	23.5	20.7	237	22.8	20.4	50	4.8	4.7
Greene County	123	32.0	28.9	95	38.1	28.8	78	25.6	25.6	58	17.6	17.6	20	5.3	3.3
Jones County	93	41.5	34.8	70	40.3	36.9	28	14.2	13.2	37	17.7	16.2	10	4.5	4.5
Lenoir County	338	42.6	37.7	257	31.7	29.0	232	26.3	31.3	213	24.2	34.5	18	24	2.6
Kinston City	264	52.6	49.8	179	30.4	27.8	139	25.5	24.6	118	18.8	17.4	43	7.0	6.3
New Hanover County	1294	54.4	45.9	1929	44	42.7	796	32.3	29,4	824	35.0	33.3	279	ILI	10.6
Onslow County	946	57.9	52.2	653	34.1	29.8	569	27.9	22.1	516	27.5	26.2	140	6.9	6.6
Pamilies County	111	54.9	82.4	79	34.7	32.5	49	113	20.4	45	16.7	15.2	16	6.3	4.2
Pender County	240	41.2	34.9	170	29.9	26.0	142	21.0	17.6	133	19.5	17.8	47	6.4 25-700-61-35	6.1
Sampous County	354	39. 3	32.9	252	27.0	23.4	120	22.8	17.8	162	24.8	19.1	18	2.4	2.4
Clinton City	131	39.7	29.7	103	26.4	21.3	85	29.3	28.6	79	22.4	21.3	9	2.3	1.5
Wayne County	774	46.5	4,1	584	35.7	31.9	479	28.9	23.8	529	30.0	25.8	125	7.9	7,7
Goldsboro City	232	43.8	37.4	132	24.2	19.8	164	27.5	21.2	167	25.4	20.9	13	2.0	2.0

Vield is an index of the effectiveness of a program which takes into account both participation and performance. It is calculated by multiplying the participation in a course by the average percent of core items answered correctly and then multiplying by 100. Effective yield is a similar index but it counts as "participating" in the course only those students whose achievement is above a cutoff point estimating that they will pass the course.







Yield and Effective Yield on Selective 1989-90 End-of-Course Tests by School System

CENTRAL REGION	A	gebra i	•••••	G	eornetry•	•••••	•••••A	gebra II•	•••••	•••••C	hemistry•			Physics • • •	
	Number		Effective	Number		Effective	Number		Effective	Number		Effective	Number	Yield	Effective Yield
School System	Tested	Yield	Yield	Tested	Yleld	Yield	Tested	Yleid	Yield	Tested	Yveld	Yield	Tested	Hield	TRIG
Durham County	1176	60.5	55,4	930	46.5	44.1	724	39,0	36.6	621	32.6	31.6	265	12.8	12.6
Durham City	427	42.9	28.5	258	22.2	14.8	203	15.3	7.8	251	20.0	12.8	52	4.3	3.6
				152	23.3	21.1	120	17.3	14.0	174	27.9	26.0	59	7.3	7.0
Edgecombe County	266	44.1	37,2				•	•				•		• • •	• •
Tarboro City	163	55.2	52.5	121	28.2	24.0	89 Jan J. W. Bellat	26.2	23.3	113	30.5	27.8	44	11.6	11.3
Franklin County	212	42.2	39.2	155	28.7	25.0	124	19.1	17.2	120	18.2	17.7	38	4.9	4.7
Franklinton City	73	36.2	28.2	37	23.6	23.6	38	16.6	11.3	21	11.8	11.8	9	4.6	4.6
Granville County	448	50.9	44.1	286	31.5	28.6	163	18.4	15.3	244	26.2	23.8	43	5.4	5.4
as a me	********	37.1	26.0	158	14.3	9.7	149	12.7	7.5	127	13.1	11.6	43	4.0	3.0
Halifax County	332		(a) (a) (a) (a) (a) (a) (a) (a) (a) (a)		2000 d. d.			8050 V			33.1	38388 D. N.	17	\$.7	5.7
Roanoke Rapids City	163	54.9	49.2	99	37.1	35.6	128	38.5		**					
Weldon City	72	35.1	23.4	27	12.5	8.4	35 200 - 487 1 18	20.0	10.8	40	22.2	13 a	. 25	9.6	5.0
Johnston County	400	46.3	43.9	536	34.6	28.8	423	25.5	24.1	367	21.2	26 1	149	7.4	7.2
Nash County	596	42.4	37.7	422	31.9	30.0	374	27.7	24.1	333	23.1	22.0		6.8	6.7
	215	39.4	34.1	168	24.3	25.6	116	ોદ	184	122	19.8	18.9	67	16.3	10.1
Rocky Mount City	Actor and actor and actor	*********	gagaga nagaran san ann s	Commission of the Commission of	7 10 10		132	22.1		136	23.6	19.2	30	5.2	5.0
Northampton County	197	42.3	38.0	158	26.4	20.1		ar bala f	WW.00000000000000000000000000000000000		28 8 80.83	740280 a	arsto Co.	27.000	26 27 5 7
Vance County	306	36.0	32.9	198	21.0	18.1	171	17,3	14.0	170	17.1		71	~ 7.1	
Wake County	3959	68.3	65.7	2907	47.3	45.8	2755	48.7	46.3	2488	42.0	41.3	1132	17.6	17.5
Warren County	172	42.0	35.2	95	22.0	19.3	70	15.7	11.7	65	15.7	14.5	· Visit son	4.3	
Wilson County	602	49.7	47.7	406	30.6	29.5	326	24.1	21.1	283	21.1	20.8	78	5.6	5.5

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12.

Yield and Effective Yield on Selective 1989-90 End-of-Course Tests by School System

SOUTH CENTRAL REGION	·····/ Number	Algebra l	Effective	······G Number	eometry•	 Effective	 Number	Algebra 11	Essective	 Number	Chemistry	Effective	Number		Effective
School System	Tested	Yield	Yield	Tested	Yield	Yield	Tested	Yield	Yield	Tested	Yield	Yield	Tested	Yield	Yield
Bladen County	504	A5.0	37,0	259	36,3	34.9	185	21,4	16.8	175	19.8	16.0	30	3.4	77
Columbus County Whiteville City	323 169	33.7 52.4	28.0 42.8	241 119	23.3 36.3	20.1 33.6	160		13.8 27.2	222 113	20.6 37,1		0 64	0.0 17.2	0.0 16.1
Cumberland County Harnett County	2486 563	51.5 42.0	43.9 38.4	1864 403	35.4 26.3	29.8 23.7	1457 235			1246 275	The North Control of the Control of	20.6 17.6	338 42	6.2 2.7	5.9 2.6
Hoke County	280 435	45.3 50.8	40.9 44.7	162 291	25.1 37.6	23.0 31.1			17.3 23. 5	125 157	100000000000000000000000000000000000000	2000 00 00 00 00 00 00 00 00 00 00 00 00	29 43	5.0 5.0	5.0 5.0
Lee County Montgomery County	257	49.8	42.2	168 308	30.5 28.0	25.1	161	29.8	25.1 21.9	171 288	87.13		54	9.3 7.6	8.3 7.5
Moor, County Richmond County	471 473	44,7	35.9	352	28.1	24.1	224	18.4	14.8	225	17.3	14.1	36 151	2.7 4.8	2.6 3.8
Robeson County Scotland County	1 0 57 403			751 190	21.4 19.8	17.1 17.5							28	2.7	2.7

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Yield and Effective Yield on Selective 1989-90 End-of-Course Tests by School System

NORTH CENTRAL		lgebr a l•••		••••••	eometry•	•••••	•••••	Algebra II:	•••••	С	hemistry•	•••••	••••••]	Physics ••••	
REGION	Number	67	Effective	Number	connect y	Effective	Number	••	Effective	Number		Effective	Number Tested	Yield	Effective Yield
School System	Tested	Yield	Yleld	Tested	Yield	Yleid	Tested	Yield	Yleid	Tested	Yield	Yield	1 42660	I leiu	
Alamanca County	549	18.6	43.9	485	38,7	36.2	315	25.3	21.7		27,1	24.2	96	6.6	4.5
Burlington City	401	56.0	51.8	304	47.3	45.4	232	32.4	29.9	237	30.6	29.6	132	15.1	14.5
Caswell County	200	37.7	28.1	119	23.8	26.5	113	20.9	15.2	132	25.2	21.5	33	6.5	3.9
Chatham County	365	62.7	56.3	265	44.3	41.6	180	30.3	28.2	147	21.5	21.1	32	4.3	4.2
Davidson County	13 1	47.8	41.7	736	35.4	32.3	583	26.6	21.4	508	28.5	25.3	224	9.4	1.7
Lexington City	200	54.8	41.9	130	28.9	22.9	75	13.8	7.9	76	16.5	14.6	48	9.3	8.0
Thomasväle City	197	49.8	49.8	.80	27.1	23.i	69	24.5	24.2	56	19.4	18.7	15	5.1	8.1
Forsyth County	2108	56.1	51.8	1488	36.0	33.3	1433	38.1	36.0	1076	26.2	25.3	439	9.5	9.2
Gullford County	1446	57.1	54.8	1226	44.0	43.4	933	34,0	31.7	940	31.5	29,8	224	7.1	
Greensboro City	1169	54.2	48.0	1000	41.2	36.3	797	33.8	28.9	766	31.0	29.3	288	10.6	10.3
	445	33.9	45.3	259	24.9	25.3	239	27.9	24.3	179	28.7	28.1	*	4.5	4.9
High Pulat City	270	46.7	46.7	247	34.2	29.8	185	25.2	19.6	178	26.5	24.1	37	4.9	4.4
Orange County	360	70.5	65.4	311	68.7	64.7	242	50.4	544	235	35.7	38.0	173	35.0	34.6
Chapel Hill City	Maria Maria - Santa -	50.8	47.4	227	36.0	33.9	148				15.3	15.2	82	9.2	8.4
Person County	310 556	37.8	35.6	426	26.3		391			303	17.1	14,7	69	3.9	3,9
Rendolph County	Transaction of the	·	•	174	44.1	41.5	135		•	131	30.0	28.4	17	4.6	4.6
Asheboro City	199	56.4	53.0		29.7	The second second		· .			28.2	389 / BW	15	3.4	3.4
Rockingham County	152	37.7	33.5	141			-			·	31.7	•	93	16.6	15.7
Eden City	238	51.1	47.2	152	31.0		132				21.3	4.	2. 3	5.3	
West, Rockingham	203	49.6	43.3	133			104						100g/1111 34	2.9	
Reidsville City	177	41.1	35.1	104	22.7	19.7	131				20.5		17		
Stokes County	299	36.0	43 (23 32.0	229	28.3	26.0		3 21.1	1 49.1	193	21,1	186	·····································	2.1	2.1

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12.

SOUTHWEST REGION	·····A	leebra 1	•••••	Ge	ometr y •		******	Algebra II	•••••	•••••С	hemistry	•••••		Physics···	
SOUTHWEST REGION	Number	.,,	Effective	Number	•	Effective	Number		Effective	Number		Effective	Number	W _{t-1} J	Effective Yield
School System	Tested	Yield	Yleid	Tested	Yield	Yield	Tested	Yield	Yield	Tested	Yield	Yield	Tested	Yield	T SEIG
Anem County	227	34.2	29.8	158	22.2	17.1	163	20.5	13.6	92	12.3	, •	**		•
Cabarrus County	700	52.4	49.4	553	40.6	38.5	526	37.3	35.3	390	25.3	24.1	110	7.4	7.2
Kannapolis City	225	37.3	25.7	216	36.1	30,3	291	32.9	25,8	138	25.4		33	•	61
Cleveland County	459	42.6	35.7	284	26.6	23.6	221	22.1	19.6	257	23.3	21.0	42	4.1	4.0
Kings Mountain City	199	36.4	33.5	170	33.6	31.4	67	13,9	13.9	93	18.1	17.3	13	2.6	2.6
Shelby City	175	46.7	41.9	154	36.8	32.5	141	35.8	26.7	153	39.6	35.2	19	4.6	4.6
Gaston County	1558	40.8	(*)****)	1236	29.6	24.9	894	19.6	16.3	972	7.0.7	17.3	387	7,9	7.2
Lincoln County	479	43.3	35.5	419	36.1	29.6	290	27.2	24.9	265	22.6	20.9	33	2.9	2.9
Mackinsburg County	3956	49,2	43.1	3316	44.6	37.2	2450	28.8	× 25.2	2527	28.3	26.5	769	1.2	7.5
Rowan County	891	47.6	42.9	762	39.5	35.2	511	26.9	21.3	476	24.8	22.9	151	6.5	6.3
Stanly County	434	60.1	53.7	307	34.9	31.7	233	25.1	244	203	14.7	26.2	71	7.3	1.5
•	183	72.0		104	52.4	50.9	69	38.0	36.3	89	44.0	44.0	20	9.4	9.4
Albemarie City	618	44.1	48941.5 8.0	470	34.5		376	26.5	24.2	330	23.6	23.2	- Co. 100	7.4	7.2
Union County	the second second second	ere vers									26.7	23.9	17	3.9	3.7
Monroe City	169	46.4	36.5	98	27.6	25.0	91	20.0	13.4	113	20.				

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Yield and Effective Yield on Selective 1989-90 End-of-Course Tests by School System

NORTHWEST REGION	••••••А	leebra I	•••••	G	ometry•	•••••	·····A	igebra II•	•••••		Chemistry	••••		Physics ••••	
, toke i i i i i i i i i i i i i i i i i i i	Number		Effective	Number	•	Effective	Number		Effective	Number		Effective	Number		Effective Yield
School System	Tested	Yield	Yield	Tested	Yield	Yield	Tested	Yield	Yleld	Tested	Yleld	Yleld	Tested	Yield	I leia
5, 17600,760 521 436 6.700001 40000 3000	200000000000000000	3086888344.V		41 2 3 3		gggar. By		55. J.	าร์แฮ ซึ่ง เม	All. Alleria	3.3.5				
Alexander County	280	44.9	39.1	190	28.8	24.9		27.9	24.2	117	163	13.1	\$	113	10,6
Alleghany County	63	32.2	29.2	65	30.7	27.9	64	32.1	26.6	65	35.0	35.0	16	5.9	5.2
	179	43.8	41.8	123	29.5	29.1	144	32.5	28.3	89	20,5	20.2	23	4.1	6.1
Ashe County	173								•	• .	18.3	17.2	17	4.6	4,6
Avery County	108	41.1	38.4	98 AUTHREE 11. 112	27.1	24.4	65	15.5	12.9	70				10748988983	300000000000000000000000000000000000000
Burke County	635	42.6	39.3	472	28.7	25.9	361	243	11.6	281	19.1	18.7	119	7.5	7.5
Caldwell County	525	38.3	32.6	411	28.0	26.5	281	20.0	18.4	199	14.2	13.7	48	2.8	2.8
		50.9	48.7	397	19.8	28.6	475	327	29.9	324	21.1	28.3	116	S LO	67
Catawbe County	66 7		angeres area - 1 - 1 -	. 1.21 10 20 1 1				10,000,000		163	28.6	28.3	55	9.4	9.2
Hickory City	283	60.7	54.9	214	44.5	43.4	204	36.7	34.5	1980 Jan 188		WWENELL L	38886 XXXX	42.239720	\$255 55 555
Newton City	298	39.1	57.5	110	324	31.9	118	34,5	33.4	91	26.1	25.3	18	6.1	6.1
Davie County	256	48.1	43.4	210	38.4	37.3	147	23.5	21.4	147	26.0	25.8	25	4.5	4.5
				378	27.4	24.0	351	25.8	21.5	323	23.6	21.0	55	3.3	3.5
Iredell County	972	43.4								•	19.5		11	5.0	5.0
Mooresville City	119	42.5	37.5		42.8	42.3	101	28.7	20.8	52	7 WOR			90333A	
Statesville City	160	44.1	35.2	121	29.2	25.6	117	31.0	25.1	97	24.7	21.7	7	1.2	1.1
Surry County	394	46.7	44.5	287	30.0	28.2	239	26.0	24.1	282	27.0	25.5	32	2.8	2.6
	30000000000000000000000000000000000000			장하다가 많은 손	49.2	46.5	50	563	529	33	37.9	37.9	3	21	2.1
Elkin City	59	w. A. a. a								·	•		32	12.5	11.7
Mount Airy City	159	68.2	65.5	90	45.4	41.9	82 ************************************	39.5		52	1. 4. 877 A	400 X 22	3630.0880	Y BOOK STATE	000000 B
Walauge County	208	53.0	51.7	182	38.8	36.9	131	29.3	29.1	103	20,9	20.7	38	7.6	7.4
Wilkes County	498	39.3	35.2	430	29.1	24.5	313	21.0	15.6	274	20.6	19.5	83	5.3	4,9
		. ·		208	34.3	31.2	133	22.3	18.3	154	23.4	21.4	20	2.8	2.7
Yadkin County 1988	266	39.5	·	208		ند د					,	•			

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Yield and Effective Yield on Selective 1989-90 End-of-Course Tests by School System

WESTERN REGION	••••••A	lgebra I•	•••••	(Geometry		******	Algebra II	•••••	(Chemistr y			hysics••••	
VIDO I DIKIN ILD OTO I	Number		Effective	Number	·	Effective	Number		Effective	Number	W1.4.4	Effective Yield	Number Tested	Yield	Effective Yield
School System	Tested	Yield	Yield	Tested	Yield	Yleld	Tested	Yield	Yield	Tested	Yleid	Tiela	I esten	IRIU	1 ~ 10
Buncombe County	1330	57.1	52.8	844	34.7	33.6	\$87	35,0	31,5	641	23.9	22.4	179	5.3	\$4
Asheville City	256	56.3	47.9	197	38.7	34.6	136	29.7	26.2	133	27.3	25.4	49	10.6	10.4
Cherokee County	179	43.1	44.2	132	27.6	25.8	169		38.2	104	23.1	23.1	55	11.5	11.5
Clay County	44	34.0	33.3	86	52.4	49.4	40	20.9	18.8	47	24.1	23.6	10	8.5	8.5
Graham County	37	52.1	41.6	53	33.8	30.0	56	33.2	28.5	28	14.2	12.1	10	5.1	3.1
Haywood County	429	31.8	47.4	313	32.4	29.9	259	22.9	18.6	258	24.8	23.7	59	5.8	5.8
Henderson County	405	42.8	46.7	299	39.1	30.3	298	30,6	27.7	192	19.1	18.8	43	41	4.1
Hendersonville City	152	70.6	70.6	52	31.6	31.0	127	72.9	72.9	77	42.1	38.3	21	13.8	13.8
Jackson County	254	58.3	53.7	173	34.2	35.3	110	24.3	23.4	189	24.8	23.6	35		6.5
Macon County	172	43.9	40.5	102	26.9	26.7	131	35.8	34.2	83	22.1	22.1	31	7.1	6.2
Madeon County	142	43.7	38.8	68	18.4	16.0	44	16.6	16.3	77	17.0	16.1	29	6.3	5.0
McDowell County	344	40.2	34.7	243	24.4	22.2	194	22.6	20.5	161	18.4	17.8	69	7.1	6.2
Mitchell County	148	638	37.8	82	24.6	25.3	69	21.0	16.1	37	13.2	125	13	8.3	3.1
Polk County	109	40.6	36.1	59	23.7	22.1	85	25.9	18.6	80	24.7	20.1	21	6.4	5.4
Rutherford County	547	48.1	45.1	311	23.8	22.1	251	21.5	29.5	179	15.5	15.3	47	4.1	41
Swain County	9 1	45.8	38.7	86	47.2		75	29.7	24.5	69	27.8	26.1	11	5.4	4.9
Transylvania County	262		988 W.S. 1880		38 J. X	30 80 8 0 70	400 1000	35,2	31.5	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	22.3	22.0	92	15.7	13.9
		49.1	46.8	81	26.8	26.2		23.2	17.5	43	12.2	11.4	18	5.0	5.0
Yancey County	152	47.1	40.5	91	20.0	20.2									

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13.

Avarage Core Scores and Participation Indices for School Systems Grouped by 1969-90 8th Grade California Achievament Test Total Battery Scores: 65th Percentile and Abova

	Algebro	1	······Geoma	try	-	or a	Blot	• • ,	Chemit		······Physi	_	Engli		U.S. HI	•
	Average Par		Average Pa	•	_	Participation	-	enticipation	Average Pa	rticipation Index	Averege Pa	rticipation Index	Average P	articipation Index	Average Pr	inticipation Index
School System	Core	Index	Core	index	Core	Index	Core	Index	Core	MUSA		HAZA	00.0	***************************************		
Ashe County	43.8	60.4%	44.4	39.0%	\$\$.0	48,0%	41.3	\$3,4%	41.4	29.7%	40.5	9.0%	96.4	92.6%	43.0	82.0%
Burlington City	42.0	80.0%	41.5	68.5%	40.6	44.7%	43.9	98.2%	40.3	45.7%	40.9	22.1%	72.0	97.4%	44.4	82.3%
Cabarrus County	42.0	74.8%	41.0	59.5%	39.6	52,8%	43.0	8 3.4%	38.8	29.2%	42.0	10.5%	68.9	88,1%	44,4	83.7%
Camden County	44.9	79.0%	41.0	49.3%	37.0	51.2%	40.6	102.7%	37.8	39.3%	39.6	20.0%	68.8 ******	104.9%	42.3	86.9%
Chapel (M Chy	50.6	83.5%	47.8	88.8%	48,6	88,0%	44.8	98,1%	42.2	54.4%	45.6	48.0%	74.0	93.0%	44.8	83.3%
Cherokee County	44.1	58.7%	39.6	41.9%	39.7	56.9%	42.1	81.9%	39.6	35.0%	38.8	18.4%	69.9	85.2%	43.9	82.2%
Chawsin County	42.8	79.4%	41.4	39,0%	41.5	43.4%	9.2	104.8%	38.3	39,0%	44.4	5.0%	57.4	19,5%	41,9	79.1%
Clay County	40.8	50.0%	36.9	85.1%	35.6	32.6%	41.0	97.0%	37.5	38.5%	43.4	11.8%	65.3	94.3% *********	43.8	81.1%
Dere County	49.2	73.5%	50.0	48.2%	44.3	51,3%	47.7	#1.0%	41.6	48,7%	41.1	10.0%	56.8	\$6.4%	48,1	99.5%
Davie County	40.9	70.5%	41.4	55.7%	37.5	35.1%	44.5	77.5%	44.4	35.1%	43.4	6.2%	66.2	90.9%	45.7	74.5%
Durham County	41.7	87.2%	41.3	67.6%	40.3	64.2%	42.7	98.4%	42.2	46,4%	40,4	18.8%	47.8	90.2%	44.0	80.7%
Forsyth County	42.8	78.8%	39.5	54.6%	40.5	52.6%	41.6	90.8%	39.8	39.5%	39.7	14.3%	66.8	95.7% ***********	41.8	16.8%
Hickory City	42.0	85,5%	42.2	U.SK	79.1	52.4%	44,3	78,7%	41.0	41,8%	39.1	14.4%	72.0	87,3%	49.9	78.9%
Jackson County	41.7	83.8%	41.2	55.6%	37.0	36.5%	41.0	86.5%	41.1	36.2%	36.3	11.3%	65.5	86.0%	43.6	80.1%
Mount Airy City	40.9	102,6%	40.8	67.2%	28.1	56.6%	44.4	103.7%	40.6	35.9%	28.4	19.5%	19.5	18.4%	22.5	73.8%
Stanly County	40.0	90.2%	35.0	59.7%	35.9	45.4%	41.2	87.0%	40.5	39.6%	36,0	12.0%	66.6	87.5%	43.3	78.0%
Wake County	46.4	44 4%	43.6	65.2%	41.8	65.2%	45.2	\$2,1%	42.0	58,9%	42.0	25,2%	70.6	\$3.0%	46.7	84.9%
Watauga County	46.8	68.0%	42.0	55.5%	44.7	38.7%	14.9	89.9%	43.4	26.9%	44.5	10.3%	68.5	94.1%	44.6	78.7%



Average Core Score and Participation Index for School Systems Grouped by 1989-90 6th Grade California Achievement Test Total Battery Scores: 60 to 64th Percentile

	Algebr Average Pai		Geome ல்லக்குe Pa		Algeb Averaga P	ra II articipation		logy⊶⊷⊶ Participation		ilatry Participation	-	articipation	Average Pa		U.S.Hk Average Pi Core	•
School System	Core	Indiax	Core	Index	Core	Index	Core	Index	Core	Index	Core	Index	Core	Incex		
Alumence Coursy	40.4	72.1%	34.6	60.2%	35.3	40.2%	30.0	97.4%	39.7	40.9%	37.9	10.5%	65.4	97.1%	42.1	94.4%
Albemarie City	43.2	121.2%	42.3	74.3%	41.9	50.7%	43.2	106.4%	40.4	65.4%	43.0	13.2%	68.5	103.3%	42.2	97.1%
Alteghany County	\$4.4	50.4%	36,0	\$1.2%	36.6	49.2%	41,3	85.0%	42.0	50.0%	34.4	10.2%	56.0	90.4%	49.1	78.2%
Asheboro City	42.0	80.6%	39.5	66.9%	37.3	47.0%	43.7	93.8%	39.4	45.6%	45.1	6.1%	68.5	89.1%	43.4	71.4%
Asheville City	41.2	82.1%	39.7	54.5%	38.6	42.2%	39.4	98.7%	38.8	42.2%	40.8	18.6%	68.9	92.6%	81.6	20.6%
Buncombe County	43.2	79.5%	41.0	50.8%	39.2	50.1%	41.7	92.8%	39.6	36.2%	36.4	9.5%	68.0	93.1%	42.2	83.2%
Catawha County	44.8	58.5%	42.9	39.7%	38.6	47.5%	40.8	#5.6%	39.2	\$2,4%		10.9%	65.8	90.3%	42.	78.6%
Davidson County	39.0	73.6%	36.8	57.8%	33.0	45.3%	41.7	\$2.9%	36.2	47.2%	33.7	16.5%	65.8	93.1%	42.5	80.7%
Elidn City	4.9	4,5%	39.5	74,7%	40.9	76.5%	45.2	102.7%	44.8	50,8%	•	3.0%	75.9	100.0%	45,2	100,0%
Graham County	36.9	84,8%	36.0	58.4%	37.9	49.1%	35.8	102.1%	34.6	24.6%	35.2	8.8%	64.8 21432	95.2%	41.5	77.2%
Greensbora City	40.1	81,0%	33.4	64.3%	37.5	50,5%	A1.1	84,0%	38.4	48.5%	30. \$	16,4%	86.9	##,0%	42.5	72.4%
Guliford County	43.2	79.4%	40.2	66.6%	39.8	47.7%	42.2	90.2%	39.3	48.1%	37.7	11.3%	68.6 . 71.264 <u>.1</u> 273	92.6%	43.8	83.3% 83.1%
Haywood County	42.1	73.5%	37.7	51.5%	33,5	34,5%	100	\$0.5%	31.1	38.3%		9.0%		88,3%		AVACANCE
Hendersonville City	42.4	153.5%	42.0	45.2%	40.8	105.0%	H0000 10000	127.0%	39.7	63.6%	30.100	20.2%		119.2%	44.3	110.7% 81.1%
Macon Dourty	40.9	MAN	43,4	37.2%	37.2	53.9%	44.0		38.1	34.2%		120%		91.3%	44.8	69.2%
Mitchell County	38.1	102.1%	37.0	43.2%	33.0	34.8%	AMAGAGAGAGAGA CARA	118.9%	42.3	18.7%		7.4%	2 YEAR 100 - 10 PK	90.3%	42.9 42.5	77.7%
Moore Courty	29.3	47.8%	36.5	44.1%	34.2	35.2%						12.2%		88.3%	1.0011000	76.4%
Mooresville City	40.5	63.0%	46.9	54.9%	31.7	50.8%	1966/00/00/00/00	113.2%	nocemboons a ser	26.1% 2 ~ ~ ~ ~ 42	1999 July 1897	6.5%	1,000,000 1 4 6	99.4% \$4,7%	and the second second second	81.7%
Hen Hunarer County	37.3	\$0.7%	36.3	70.5%	\$9.1	46.1%	1110 10	AMILIAN A	• *			17.5%		103.5%		78.3%
Pamilco County	42.1	78.2%	40.3	51.6%	39.1	30.4%	2000/06/2015 15:19:	100000000000000000000000000000000000000	William Control	28.0%		9.5%		92,5%	17944000 . 1700	79.3%
Rouncke Repide City	40,5	91.5%	42.7	\$2.1%	36,6	59,0%				* *		\$,5 %		92.5%		77.0%
Rockingham County	39.5	57.4%	38.6	46.2%	37.5	37.5%	11 X 000 C C AV 3 AV	and the second of the second	.00000000000000000000000000000000000000	ere de la lace		5.0% پيرن	4.5	92.5% \$7,5%	4. 2006909 12:00	xxxxxxxxxxxxxx
Shelby City	39,7	70.6%	36.1	61.1%	33.6	59,79			•		•	7.0%		96.0%	••	69.9%
Swain County	38.0	72.2%	35.6	79.6%	34.6	48.19	40000	Commence of the		•		8.2%		96.4%	44,000 miles	84.2%
Tyrrell County	47.	50.07	44.9	6 · 41.7%	37.5	43.19					•			91.9%		80.4%
Union County	42.4	62.49	39.8	51.9%		37.69						10.9%	• • • • • • • • • • • • • • • • • • • •	96.5%		82.8%
Yadkin County	36,3	66,05	36.4	53.3%	35.9	34.79	4 : 39.6	90.0%	34.9	40.2%	34.0	8.0%	6 63.4	אלם, עוצ	E. T.	· •

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Note: School systems are arranged in alphabetical order. Participation Index is based on the 8th grade ADM the year most students were in the 8th grade.



Average Core Score and Participation Index for School Systems Grouped by 1989-90 8th Grs. to California Achievement Test Total Battery Scores: 55 to 59th Percentile

	Algebra I	Geometry	····-Algebra II·······	········Blology·······	······Chemistry·····	Physics	······English I·······	U.S. History
		on Average Participation	•	Avarage Participation	Average Participation	Average Participation	Average Participation	
School System	Core Ind			Core Index				
10.1 10.1 10.1 10.1 10.1 10.1 10.1 10.1		% 34.0 49.8%	36 A 43.0%	39,4 90,1%	31,4 30,9%	25.5 18.9%	64,3 95,9%	41.0 77.8%
Alexander County	37.8 71.6	The American Strategic Control of the Control of th		37.0 81.4%	Charles de La Carrella de Carr	37.1 7.5%	65.5 86.4%	41.5 73.3%
Avary County	43.6 56.5	ANALYSI A SANAYAY YI HOMOSOO COO OO MAA TA'AA	A CONTRACTOR OF THE PROPERTY O	37.7 78.3%		28.6 3.8%	63.4 75.2%	35.9 \$3.5%
Bertie County	39,1 50,0			40.9 84.8%		41.4 10.9%	65.2 89.2%	42.3 75.7%
Burke County	40.8 62.0	van var en en en en en en en en en en en en en	* APPT NA NA NA 110AAAAA0000000000000000		AND THE PROPERTY OF THE PROPERTY OF THE PARTY CONTRACTOR OF THE PROPERTY OF	824 84.9%	43.4 74.3%	
Carteret County	42.7 74.5	, processor control control		50000 055 NAVAVA		39.3 6.6%	64.1 96.2%	43,6 82.0%
Chatham County	40.3 93.4	ann an ann an	11. Laws 1997. By A. 1995-2003 (6):3007.	COMPARED TO A COMPARED DESCRIPTION OF THE	THE R. LEWIS CO., LANSING MICHIGAN SANSANCE	CONTRACTOR STANDARDS AND A STANDARDS	68.8 87.8%	44.2 89.2%
Currituck County	46,7 76.		• •	And and		38.0 7.6%	64.3 86.3%	41.8 79.8%
Duplin County	39.3 66.0		The second of th			CONTRACTOR OF STREET	The second of the second of the second	\$9.5 67.0%
Eden City	40.2 78.			WWW. 17-11-11-13-13-13-13-13-13-13-13-13-13-13-		With the control of the control of	V. V. V. V. V. V. V. V. V. V. V. V. V. V	41.2 81.6%
Harnett County	40.4 62.	A CONTRACTOR OF THE PROPERTY O	and the second s		and the control of the control of the control of the control of	and the second s	THE REAL PROPERTY OF THE PROPE	44.2 71.0%
Henderson County	42.0 19.			- 96909-34		A.A.		1 MO000000 1 NA W NA
High Point City	41.2 78.	and the state of t	 NAV. 2009. 115 (2017) 17150-000. 1 (17) 	ANNON STANLE TO A MARKOT FOR A 1 CO.	The second of the second of the second	Colored Colore	Company of the property of the company of the compa	sobobboekbooko, oo iligareebaarii Nalii 49 km -
iredell County	38,8 74.		•	199000 TO 1 TO 1 TO 1 TO 1 TO 1 TO 1 TO 1 T				A MANAGEMENT CONTRACTOR AND ADMINISTRACTOR ADMINISTRACTOR ADMINISTRACTOR AND ADMINISTRACTOR AND ADMINISTRACTOR ADM
Johnston County	41.4 67.		e a la segui compressa de la compressa de la compressa de la compressa de la compressa de la compressa de la c	Contraction of the Contract Co	The second of the second of the	Annual Control of the		A CONTRACTOR OF THE PROPERTY OF THE PARTY OF
Kings Mountain City	39.8 84.						11 Addition 1971 No. 11	1 (1) (1)
Martin County	35.9 87.	Committee of the contract of t	TRANSPORTER OF AN ADMINISTRATION OF THE CO.	Contract to the Contract Contr	14 to 1 1 to 1 to 1 to 1 to 1 to 1 to 1		The second of the second secon	CONTRACTOR AND AND AND AND AND AND AND AND AND AND
McDowell County	27.7 82.				•		· · · · · · · · · · · · · · · · · · ·	. Standing of the Art
Macklenburg County	40.9 72.	Contract to the contract of the Contract of th	and the second of the Maria Control of the second		The same of the sa	and recovery to the belong the second	11 / 12 / 12 / 12 / 12 / 12 / 12 / 12 /	4 1000 ACT 100 No. 1 2000 MARKET S. CO. 1
Panquetank County	41.3 73						****	
Perquimens County	42.0 85		and the second of the contract			THE CONTRACTOR AND THE PROPERTY OF STATE	The second section is a second section of the second section in the second section is a second section of the second section in the second section is a second section of the second section in the second section is a second section of the second section in the second section is a second section of the second section in the second section is a second section of the second section is a second section of the second section is a second section of the second section of the second section is a second section of the section of the sect	Committee of the Commit
Paraon Courty	42.3 72			Comment of the second of the s		- 18. mare	****	1 1 2 20 2
Polk County		6% 39.8 35. 8 °	and the second of the second o		The second secon	Commence of the Commence of th	the community of the second section and the community of	A THEORY COOK A DESCRIPTION OF THE PARTY.
Reideville City	28.3 64	4% 37.1 36.7			14.74		- 1 TO 1 TO 1 TO 1 TO 1 TO 1 TO 1 TO 1 T	11811811
Rowan County		2% 37.4 63.4		CONTRACTOR STATE AND AND AND AND AND AND AND AND AND AND	ร้าง อาเรียก ได้เพิ่ม นานการ ค่า i	The post out of the control of the sale of the	A SAME OF THE RESIDENCE OF A SAME	NACES AND ADDRESS OF A STATE OF THE STATE OF
Hullerford Courty	41.4 00	7% 36.0 37.6		•	•			
Sampson County		1% 34.5 47.0	17.000			10 M 10 M 10 M 10 M 10 M 10 M 10 M 10 M		and an experience of the property of the second
Statesville City	39.9 60	2% 38.4 48.0		77.				TO MANAGE TO THE SAME
Surry County		.0% 39.5 45.6		ニールのつうれ しゃしん コロケー ゲースメータド	A few from the contract of the	The second control of the second control of	The property of the same state of	A super president of the super postulation (see 1971). The
Transplyania County	39.5	4% 40.5 54.2	· · · · · · · · · · · · · · · · · · ·	· · ·				
Washington City		.0% 35.4 57.0	- ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・	1,000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	and the second second second second	TO A REPORT OF THE SECOND	A SISTEMATE TO AN APPROXIMATION
Washington County	37.1 87	8% 32.8 57.1					• • • • • • • • • • • • • • • • • • • •	
Wayne County	38.0 73	.4% 38.7 58.3			*			A 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Whiteville City	36.8 86	.4% 37.0 58.9		•				
Wilson County		.3% 39.9 46.2				and the second of the second o		The second of the second of the second
Yancey County		.2% 42.1 38.2	% 32.4 40,2	6 38.4 80.7	% \$8.5 19.21	40.1 7.59	80.0 92.4%	P = 5 40'0 costs (40'04)

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Average Core Score and Participation Index for School Systems Grouped by 1989-90 5th Grade California Achievement Test Total Battery Scores: 50 to 54th Percentile

	·······Aigebre I·······	······Geometry······	·····Algebra II·······	······Biology······	······ Chemistry ·····	Physics	English I	Average Participation
	Average Participation		Average Participatio			Average Participation Core Index	Averege Participation Core Index	Core Index
School System	Core Inde	t Core Index	Core Inde	x Core Index	Core Index	Core Index	0010	
Beauton County	35.0 60.0%	38.5 38.8%	34,9 34,19	6 37.6 82.6%	38,7 33,5%	32.7 8.5%	85.8 91.0%	80.1 72.8%
	37.1 72.9%		32,6 37,29		33.7 35.2%	34.2 5.9%	60.5 90.6%	37.4 74.2%
Bladen County Caldwell County	38.3 58.51	1.000 ANSW 744	37.7 29.8	Through Port and Tolkythous Atlanta	45 1 (1) 70% (6) (1) (80% (1)	37.7 4.5%	63.5 80.1%	42.0 70.2%
	34.7 65.19	•	30.3 38.79	***	•	36.2 10.8%	58.8 92.2%	40.0 70.2%
Caswell County	36.1 67.19	Proposition for the contraction of the	37.3 22.19	JA ONDONOSCI IN WOODDONG - JA	(1) 4.29-(。) (4.6-4)	36.7 6.3%	60.0 95.5%	40.3 78.1%
Cleveland County			41.0 40.19		• • •	30.9 4.5%	60.9 90.8%	42.4 81.1%
Cilnton City	Late and the Control of the Control	25 266 15 05 34 650 3	36.4 24.3	ANNERS A SECURITION OF	and the state of t	name with the distribution of	56.7 \$1.9%	40.2 \$7.1%
Columbus County	. '2 1. 1. 2		39.2 42.3			39.4 11.0%	85.4 91.0%	43.5 80.6%
Craven County	41.2 67.49	COLOR FOR A COMMON MASS.		100000-114	AND THE STREET	37.5 9.9%	84,0 \$0.0%	40,7 64,3%
Cumberland County	38.5 90.21			Company of the Compan		33.8 13.0%	60.0 92.7%	39.4 73.3%
Edgecombe County	35.3 73.99	1 - 00000000 01 11 N W0000000000 00 WWW	 All the state of t	200001.00 THE 1997 VAN 1 8 15	The second second	35.9 8.1%	64.0	41.0 78.5%
Franklin County	A3.4 59.21	• • • • • • • • • • • • • • • • • • • •			•	34.3 13.9%	61.7 89.1%	40.1 73.5%
Gaston County	38.4 63.79	69746, 17 (88) - Processor Cymrus	化二氢甲基酚 医多角形 医皮肤	500 A 194 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	part of the second of the second	1.39 960 4.00	82.5 80.2%	41.4 78.1%
Granvilla County	,a.a 86.31	4 35.0 82.6%						38.2 78.1%
Hertford County	38,6 58.5	** ******** ** **********************	and the second of the second o	- 1、 数 - 1 - 2 - 3 - 4 - 2 - 3 - 4 - 2 - 3 - 4 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3		36.7 4.6%	in a color of the second second	SAMPLE CONTRACTOR
Jones County	27.3	× 35.3 88.6%	34,6 23.0			•	88.7	
Lee County	39.1 78.01	% 37.5 53. 8%	The second secon	A. A. A. A. A. A. A. A. A. A. A. A. A. A	No. of the Control of		さいけいしょう 食器 開発しまた	COMPART A LINES CAPE IN THE RES
Lenoir County	40.2 41.8	× 37.6 50.7%	33.9 43.4	% 35.8 92.35		• •	62.8	40.6 79.6%
Lincoln County	36.8 70.8	% 34.1 63.5%	38.3 39.8	5.55 S MANAGE	Committee of the commit	161 66 1	63.8 82.9%	MINING THE WOOMSTONE TO AN
Monroe City	27.8 74.1	× 37.2 44.5%	31.2 36.0	4, 38,1 80,99	36.0 44.8%			•
Nach County	40.7 62.6	% 39.6 48.3%	38.5 40.3	% 38.6 91.49	4 38.7 35.9%	and the second s	The state of the second of the	Carrier and the internal section of the
Newton City	42.6 \$4.2	% 58.5 51.1%	. 39.7 49.2	% 40.7 90.59	41.0 30.3%	1 41,7 8,4%	84.1 95.1%	
Onslow County	42.0 81.5	•	33.6 46.4	% 40.1 96.69	6 39.1 42.1%	36.7 11.3%	64.3 97.5%	A Section 1997 A Section 1997
Orange County	29.7 70.7		31.8 44.4	% 40.7 72.45	42.7%	32.4 9.1%	88.7 84,8%	43.0 72.7%
-	43.0 67.3		41.3 38.7	% 41.1 90.45	4 39.6 37. 9 %	40.2 18.1%	62.1 100.0%	and the Market and a
Pitt County	42.1 53.0			40.1 74.75	, 36,0 28,5%	39.1 6.0%	84.1 84.7%	44,2 72.2%
Randolph County	37.3 71.9	,			% 33.2 31.3%	33.6 4.9%	60.1 87.2%	43.2 67.0%
Richmond County						37.2 3.3%	61.5 90.8%	40.1 75.5%
Stokes County	****						67.1 88.4%	39,4 75.8%
Tarboro City	43.7 75.8		•				•	49.0 79.0%
Wilkes County	. 38,4 61,4	% 32.8 51.89	6 32.4 <i>8</i> 0.5	179 19 9 19 87.16		- 		

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Note. School systems are arranged in alphabetical order. Participation Index is based on the 8th grade ADM the year most students were in the 8th grade.



Avarage Core Score and Participation Index for School Systems Grouped by 1989-90 6th Grade California Achievement Test Total Battery Scores: Less than the 50th Percentile

	Algebra	1	Geome	try	·····Aiget	ora Homen		ogy		nletry	······Phya		······Englia		U.S. H	•
	Average Par	•	Average Pa	•	-	Participation	Avarage F Core	articipation Index	Average	Participation Index	Average P	erticipation Index	Average Pa Core	nollaqisht xebni	Average P	erticipation Index
School System	Core	index	Core	Index	Core	Index	Core	IIIO	Cole					wasan da masa 15 100	ravana arako arababa	000400000000000000000000000000000000000
Anses County	38.1	53,8%	32.8	40.5%	27.7	41,4%	33.9	\$0.5%	31,5	23.5%	37.4	7.7%	61,5	92.9%	35,4	83.9%
Brunswick County	35.5	80.2%	35.4	48.3%	34.8	29.1%	40.6	85.8%	35.0	33.9%	37.2	11.0%	60.4	87.2%	39.8 *********	71.1%
Durham City	33.1	77.6%	29.0	45,9%	25.A	33,7%	\$3,6	73.0%	28.8	41.0%	\$1.7	1.2%	64.1	75.5%	36.2	B1.4%
Frankilnton City	34.5	62.9%	41.4	34.3%	30.0	30.9%	38.3	91.7%	41.5	17.1%	40.3	6.9%	59.3	87.1%	40.8	78.4%
Gales County	41,5	95,4%	41,7	47,9%	41.0	37.0%	35.2	\$0.6%	35.0	58,8%	23.5	19.0%	\$ 9 ,0	\$4.8%	42,0	91.6%
Goldsboro City	37.5	70.1%	33.8	43.0%	33.0	46.7%	36.9	87.6%	32.1	47.6%	37.2	3.2%	58.1	83.7%	39.5	73.5%
Greene County	40,4	47.5%	40.3	44,8%	41.7	34.4%	40.2	75.6%	41.2	25,6%	37.9	8.4%	87.8	91.5%	40.8	75.8%
Hallfax County	32.5	68.5%	28.1	30.4%	26.6	26.8%	31.7	81.7%	34.6	22.8%	28.6	6.5%	52.1	89.3%	35.5	71.8%
Hote County	33.9	#.1%	38.0	39,7%	30.7	26.9%	37.9	72.8%	39.0	33.0%	30.5	7.8%	62,9	#3.0%	36,7	74.7%
Hyde County	40.5	43.6%	37.8	53.1%	39.6	28.4%	34.0	75.0%	41.7	28.4%	33.9	11.5%	59,5	96.2%	39.1	101.4%
Karmapolis City	33.4	66.6%	31.2	69.5%	22.4	56.0%	30.5	76.2%	39.7	39.0%	37.6	10.2%	61.0	¥7.2%	40.2	72.6%
Kinston City	42.7	73.9%	37.8	48.2%	41.5	34.4%	38.6	80.6%	38.6	29.2%	37.9	11.1%	60.4	83.8%	39.6	80.4%
Lexington City	\$6.7	82.2%	34.2	50.8%	27.7	27.5%	\$7.0	80.1%	35.1	29.3%	32.5	17.2%	\$6.5	88.7%	***	64.4%
Madison County	40.3	65.4%	38.3	28.8%	39.3	26,5%	39.1	70.8%	33.0	30.9%	40.8	9.3%	58.0	93.1%	43.9	72.5%
Montgomery County	\$7.0	78.8%	\$4.7	\$2.8%	36.9	46.2%	38.4	92.8%	36.0	48.0%	34.0	16.6%	86.2	#2.0%	***************************************	74.4%
Northempton County		66.1%	30.1	52.7%	29.6	41.9%	36.5	82.7%	32.8	43.2%	34.1	9,1%	56.3	84.2%	38.4	79.4%
Pander Courty	\$4.6	67.8%	384	80,7%	34.4	34.1%	37.6	103.6%	36.7	\$2.0%	33.9	11.2%	63.4	88.1%	41.0	\$3.4%
Robeson County	36.6	57.2%	33.4	38.5%	31.3	25.1%	35.4	79.4%	34.8	33.0%	33.4	7.2%	24 WAY 15 12 WAY	82.4%	38.2	65.1%
Recky Moura Chy	43.3	B4.1 %	\$4.0	40.6%	41.4	26.6%	30.0	10.7%	42.5	26.9%	42.0	14.7%	84.4	91.4%	40,0	67.2%
Scotland County	38.5	70.6%	36.5	32.5%	34.1	47.2%	36.9	87.2%	40.7	24.1%	35.8	4.5%	59.7	92.6%	43.8	64.1%
Thomasville City	43,4	68.5%	\$7.7	43.2%	3.0	38.2%	38,1	#1.1%	40.8	20.6%	39.1	7.9%	60.6	95.5%		75.0%
Vancs County	38.6	55.8%	34.0	37.1%	33.7	29.6%	35.6	80.3%	34.9	29.4%	38.0	11.3%	TANK U.S. SAN	90.5%	710.0000000000	76.8%
Warren County	37,2	67,7%	45.6	39.4%	30.0	29,3%	39.5	#2,1%	34.7	27.2%	1. The state of th		84.9	#0.0%	41.8	74.1%
Weldon City	32.2	65.5%	28.4	26.5%	26.2	42.7%	30.6	66.7%	27.3	48.8%	24.0	24.0%		80.0%		76.8%
West Hockingham	39.7	74.9%	35.7	48.4%	36,5	32.9%	41.3	87.0%	\$5.7	35.8%	34.8	9.1%	· 66.8	81,9%	42.4	70.9%

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